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NASA TECHNICAL MEMORANDUM

NASA TM-75818

(NASA-TM-75818) AIRCRAFT NOISE EFFECTS: AN  
INTERDISCIPLINARY STUDY OF THE EFFECT OF  
AIRCRAFT NOISE ON MAN. PART 2: APPENDIX  
(National Aeronautics and Space  
Administration) 124 p HC AC6/MF A01

N85-15630

Unclas

G3/52 17782

AIRCRAFT NOISE EFFECTS

AN INTERDISCIPLINARY STUDY OF THE EFFECT OF AIRCRAFT  
NOISE ON MAN. PART II: APPENDIX *new*

Deutsche Forschungsgemeinschaft *new*

*new*

[ Translation of "DFG-Forschungsbericht: Fluglaermwirkung,  
Eine Interdisziplinäre

Untersuchung ueber die Auswirkungen des Fluglaerms auf den  
Menschen. Annexband, Harald Boldt Verlag KG, Boppard and  
Deutsche Forschungsgemeinschaft, Bonn-Bad Godesberg, West  
Germany, 1974, pp i, 1-83, 143, 149-150, 201-228

*NASA Limitation  
Removed*

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION  
WASHINGTON, D.C. 20546 DECEMBER 1980



1. Report No. NASA TM-75818		2. Government Accession No.		3. Recipient's Catalog No.	
new	4. Title and Subtitle AIRCRAFT NOISE EFFECTS. AN INTERDISCIPLINARY STUDY OF THE EFFECT OF AIRCRAFT NOISE ON MAN. PART II: APPENDIX			5. Report Date December 1980	
				6. Performing Organization Code	
new	7. Author(s) Deutsche Forschungsgemeinschaft			8. Performing Organization Report No.	
				10. Work Unit No.	
9. Performing Organization Name and Address Leo Kanner Associates Redwood City, CA			11. Contract or Grant No. NASW-3199		
			13. Type of Report and Period Covered Translation		
12. Sponsoring Agency Name and Address National Aeronautics and Space Administration Washington, D.C. 20546			14. Sponsoring Agency Code		
new	15. Supplementary Notes Translation of "DFG-Forschungsbericht: Fluglaermwirkung. Eine Interdisziplinäre Untersuchung ueber die Auswirkungen des Fluglaerms auf den Menschen. Annexband. Harald Boldt Verlag KG, Boppard and Deutsche Forschungsgemeinschaft, Bonn-Bad Godesberg, West Germany, 1974, pp i, 1-83, 143, 149-150, 201-228				
new	16. Abstract After a preliminary study in Hamburg, the reasearch team selected from a variety of scientific fields then chose an area around the Munich-Riem airport of greatest noise exposure. This area was divided into 32 clusters of different noise exposure and the subjects were drawn from each cluster for a social survey and psychological, medical and physiological testing. Extensive acoustical measurements were also carried out in each cluster. The results were then subjected to detailed statistical analyses in each individual scientific section and in a special interdisciplinary section. Part II contains a detailed description of the statistics. The study was supported by the GERman Research Society.				
17. Key Words (Selected by Author(s))			18. Distribution Statement  Unclassified - Unlimited		
19. Security Classif. (of this report) Unclassified		20. Security Classif. (of this page) Unclassified		21. No. of Pages	22. Price

## AIRCRAFT NOISE EFFECTS

### AN INTERDISCIPLINARY STUDY OF THE EFFECTS OF AIRCRAFT NOISE ON MAN (APPENDIX)

H. O. Finke

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- A.6 Appendix to Chapter 6: The Occupational-Physiological Portion of the Investigation
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- A.8 Appendix to Chapter 8: The Interdisciplinary Analyses

#### A.1.6. Remarks on the Structure of the Appendix Volume

/1

The appendix corresponds in structure to the main report.

This supplies supplementary information on methods and results of the investigation and is intended to be employed in connection with the main volume.

The section numbers as well as the numbers of tables and figures is preceded by an "A".

The outline numbers in the appendix are identical with those of the corresponding section in the main volume; sections with no appendix are therefore missing here.

There is a table of contents at the beginning of each individual chapter in the appendix.

The scientific terms, abbreviations, etc. may be found in the corresponding sections in the main volume as well as in the list of scientific terminology and abbreviations.

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A.2.5.2. Table A.2-4 Complete Statistics on Subjects in the Main Studies per Cluster

Table A.2-1 Statistics on Subject in the Preliminary Investigation: Surveys

## - Social Scientific Portion of the Investigation -

a. Stichproben: EG = Experimental, KG = Kontrollgruppe; Z = Zufallsstichprobe (21-70 J.), S = Spezialstichprobe (25-55 J., weiblich, mindestens 5 Jahre ansässig, nicht berufstätig)				
	EG-S	KG-S	EG-Z	KG-Z
b. Ausgegebene Adressen	274	261	155	150
c. Pb verstorben/verzogen/Adresse unauffindbar	21	7	16	1
d. Pb entspricht nicht Stichprobendefinition	49	26	2	7
e. Pb psychisch/physisch außerstande	9	3	6	2
f. Pb niemals angetroffen/verreist	13	13	12	13
g. Pb gibt unvollständiges Interview	1	0	1	1
h. Pb verweigert Interview	18	19	17	17
i. Auswertbare Befragungen	163	193	101	105
j. Stichprobenziele waren je 160 Pbn in EG-S, KG-S, je 100 Pbn in EG-Z, KG-Z.				

## Key:

- a. random samples: EG = experimental group, KG = control group;  
Z = random sample selected by chance (21-70 years),  
S = especially selected random sample (25-55 years,  
female, a resident for at least 5 years, not a wage  
earner).
- b. addresses given out
- c. subject deceased/moved/address could not be found
- d. subject does not correspond to the random sample definition
- e. subject psychologically or physically not capable
- f. subject was never met/away on a trip
- g. subject gives an incomplete interview
- h. subject refuses an interview
- i. questionnaires which can be evaluated
- j. random sample targets were 160 subjects each in the EG-S and KG-S,  
and 100 subjects each in the EG-Z, KG-Z

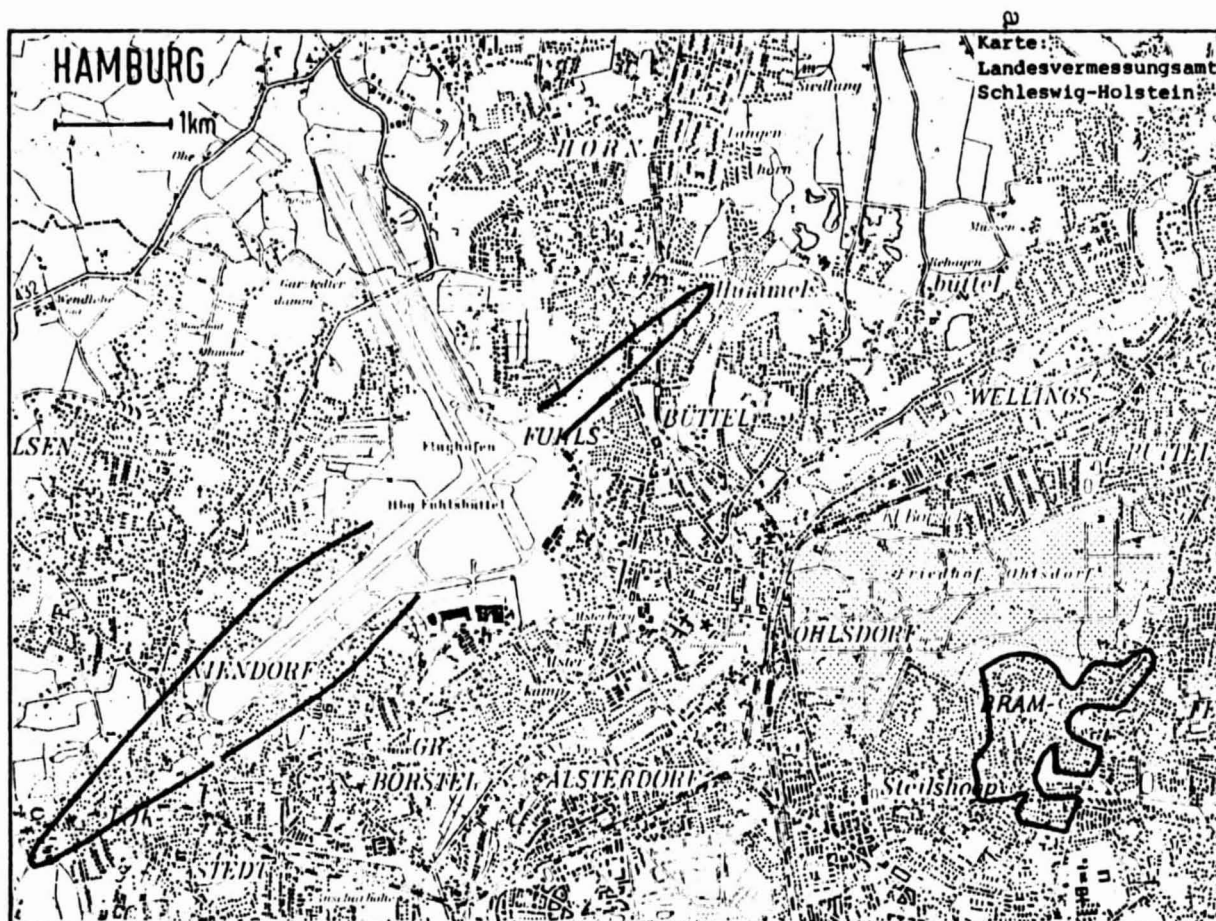
Table A.2-2     Statistics of Subject in the Preliminary Study:    Laboratory  
Section

- Psychological, Occupational-Physiological, Medical  
Portion of the Investigation -

	EG-S	KG-S
a    Ausgegebene Adressen	160	161
b    Absolventen von:		
c    Physiologische Vormessung (im Haus)	170	118
d    Laboruntersuchung I (Psychol. Arbeitsphysiol. Teile)	119	112
e    Laboruntersuchung II (Medizinische Teile)	115	110
f    Insgesamt ausgefallene Pbn	45	51
g    Stichprobenziele waren je EG-S, KG-S 100 Pbn.		

Key:

- a.    addresses given
- b.    completed:
- c.    physiological preliminary measurements (in the laboratory)
- d.    laboratory examination I (psychological and occupational-physiological portions)
- e.    laboratory examination II (medical portions)
- f.    total number of subjects not completing the examinations
- g.    random sample targets were 100 subjects for the EG-S and KG-S



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Figure A.2-0: Areas under Investigation in the Preliminary Study

Key:

a. map: Office of Land Survey in Schleswig-Holstein

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#### A.2.3.4. Remarks on the Cluster Maps in Figure A.2-1

/6

On the following eight pages the number of houses of the beginning random sample (N = 952) for each cluster is marked by a line in a corresponding section of the German basic map.

The eight clusters of one set are arranged on two pages each in the following order:

<u>Figure</u>	<u>Cluster</u>
A.2-1/D1	01 03 04 06
A.2-1/D2	01 07 08 10
A.2-1/C1	05 11 15 16
A.2-1/C2	13 14 17 28
A.2-1/B1	18 19 20 21
A.2-1/B2	24 26 27 29
A.2-1/A1	09 12 30 31
A.2-1/A2	18 23 25 32

The cluster number marked indicates the north-south direction. A general map containing all clusters is located in the main report (Figure 2-6).



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Figure A.2-1/D1: Maps of the Clusters 01, 03, 04, 06 of Set D

Key:

a. map: Land Survey Office of the City of Munich



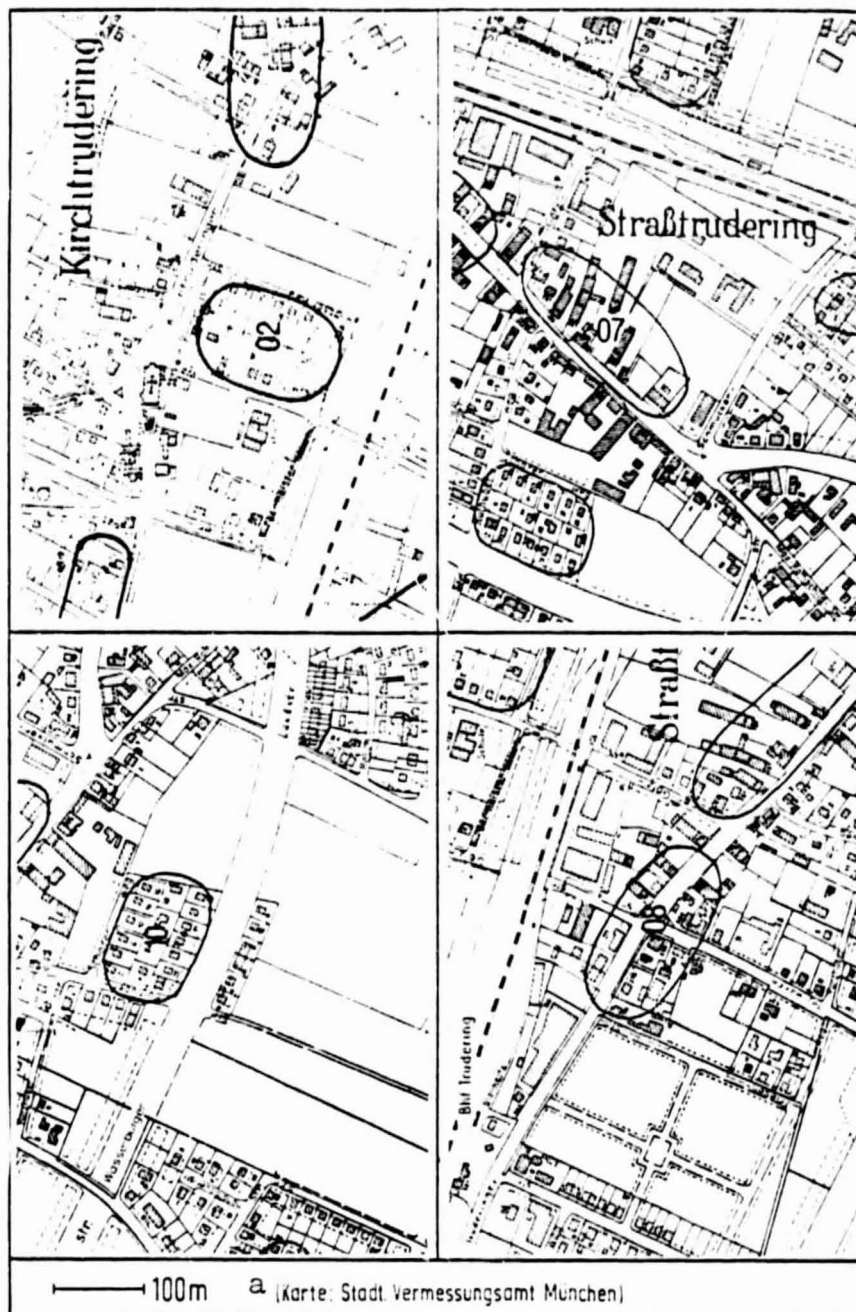


Figure A.2-1/D2: Maps of the Clusters 02, 07, 08, 10 of Set D

Key:

a. map of the Survey Office of the City of Munich

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Figure A.2-1/C1: Maps of the Clusters 05, 11, 15, 16 of Set C

Key:

a. Map of the Land Survey Office of the City of Munich



Figure A.2-1/C2: Maps of the Clusters 13, 14, 17, 28 of Set C

Key:

a. Map of the Land Survey Office of the City of Munich

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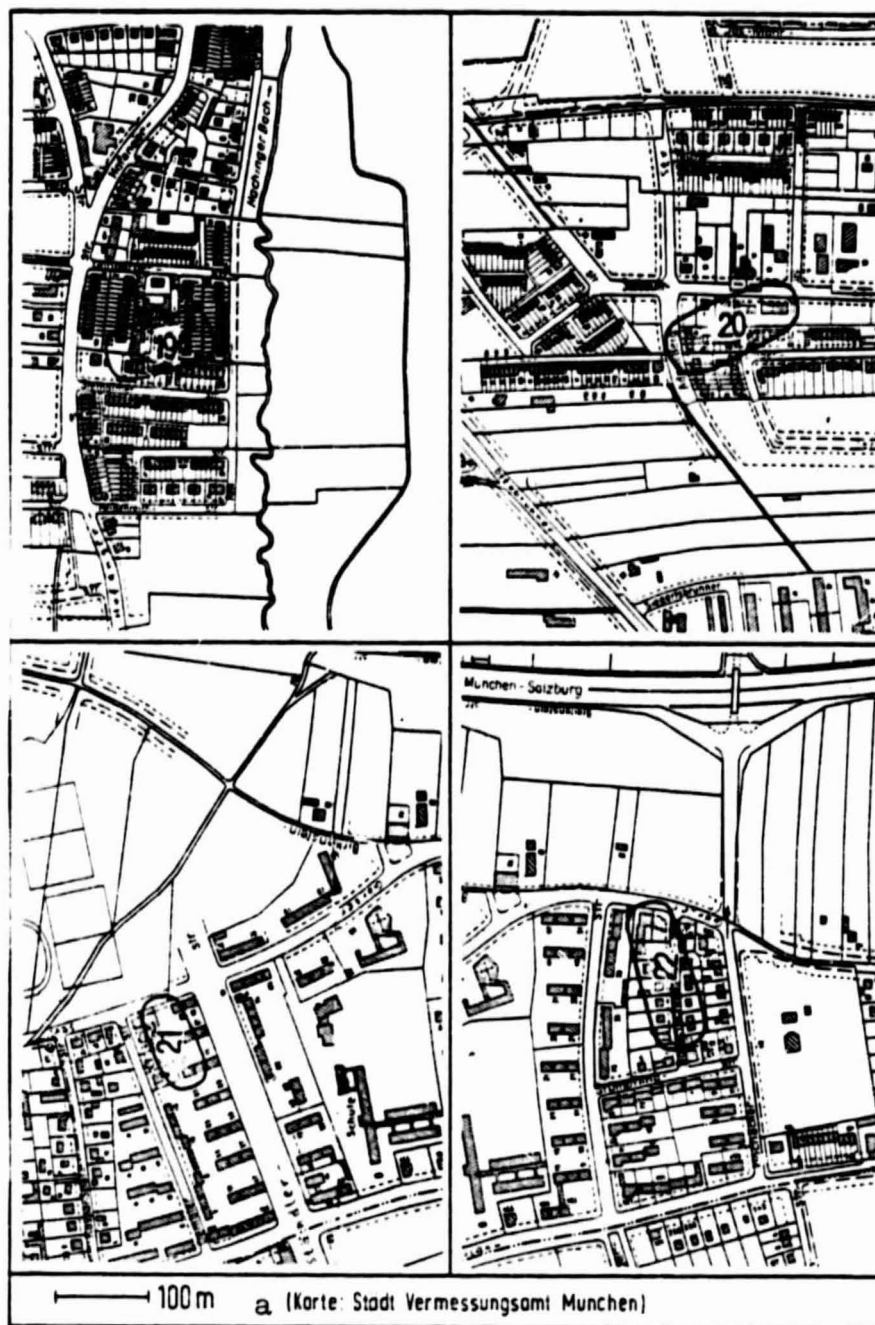


Figure A.2-1/B1: Maps of the Clusters 19, 20, 21, 22 of Set B

Key:

a. Map of the Land Survey Office of the City of Munich

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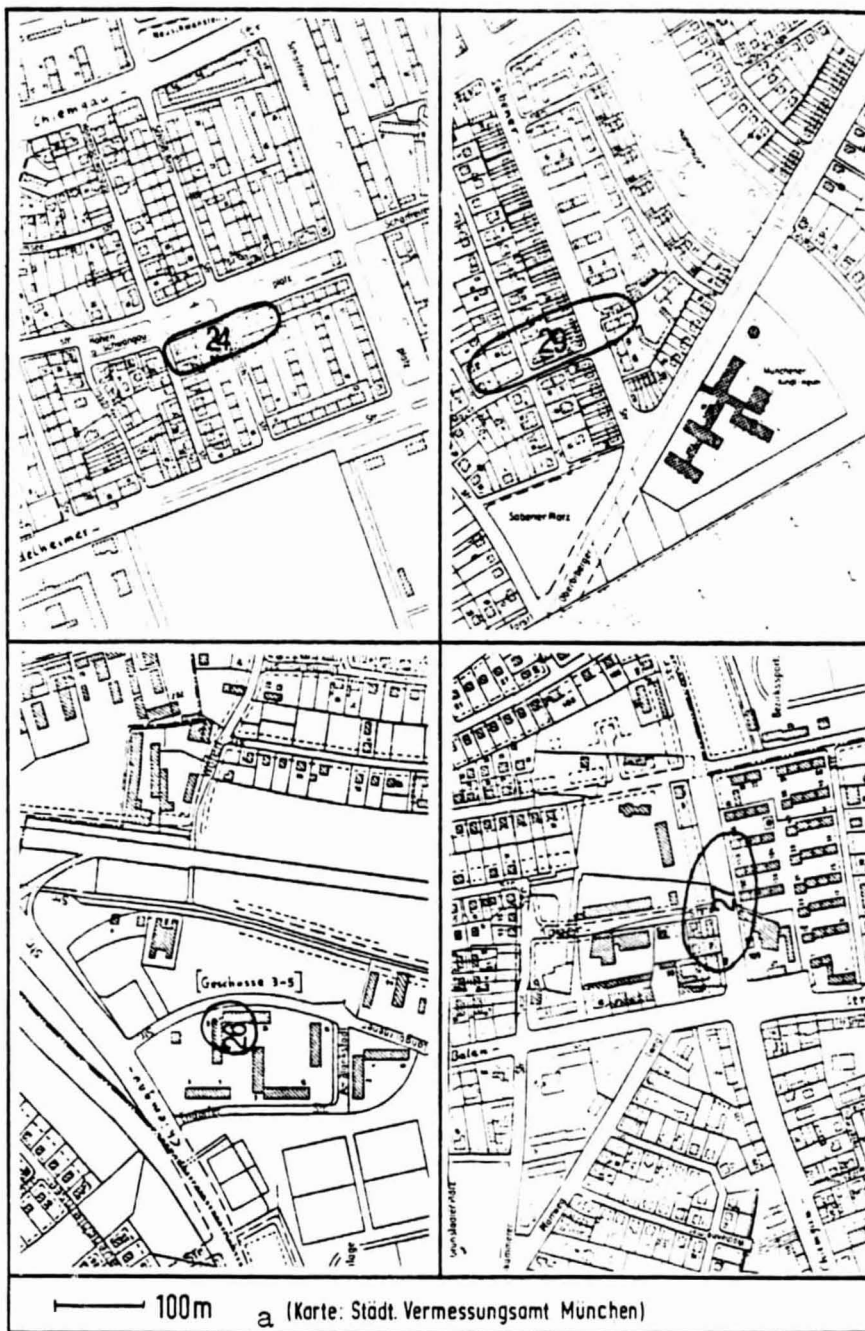


Figure A.2-1/B2: Maps of the Clusters 24, 26, 27, 29 of Set B

Key:

a. Map of the Land Survey Office of the City of Munich



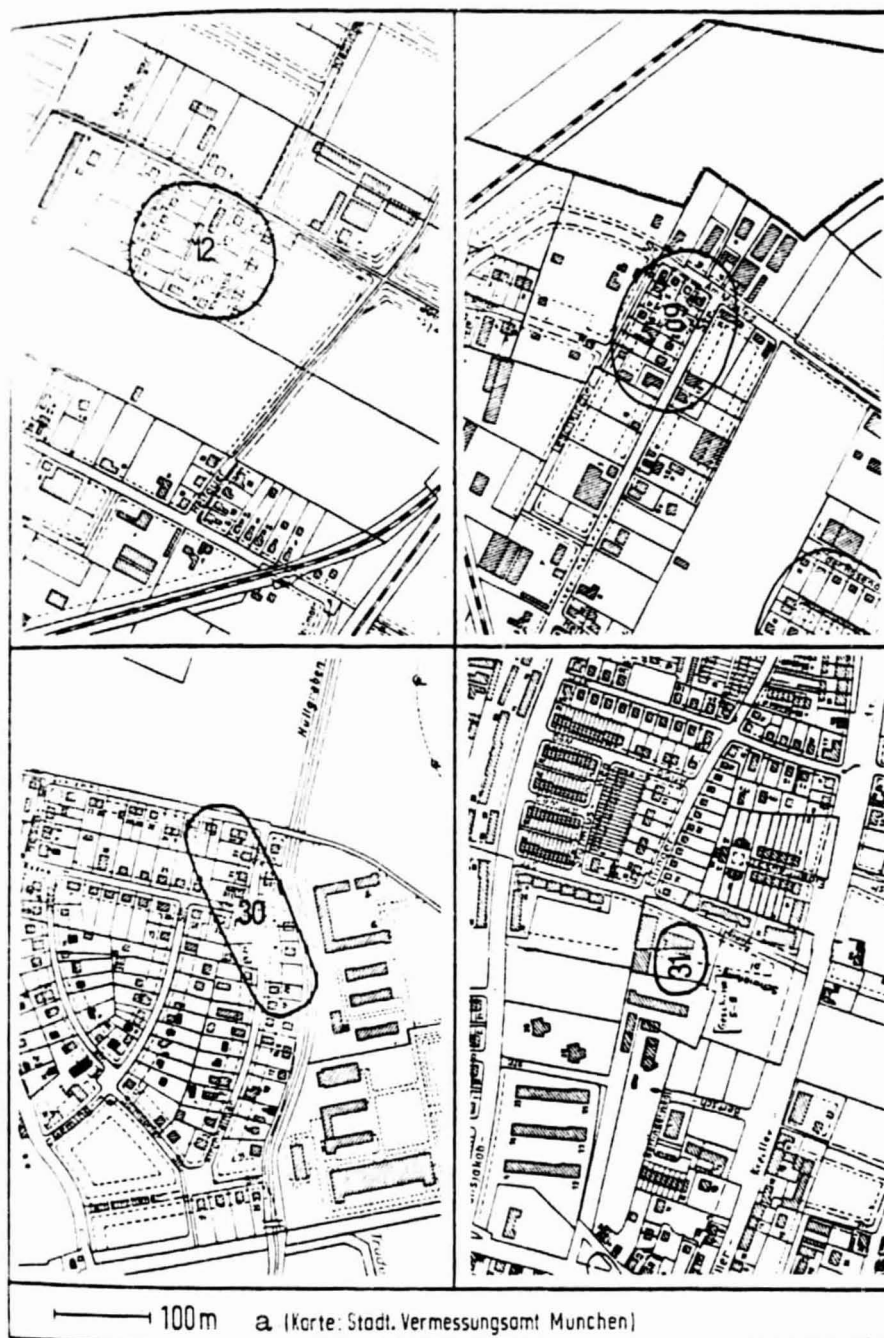


Figure A.2-1/A1: Maps of the Clusters 09, 12, 30, 31 of Set A

Key:

a. Map of the Land Survey Office of the City of Munich

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Figure A.2-1/A2: Maps of the Clusters 18, 23, 25, 32 of Set A

Key:

a. Map of the Land Survey Office of the City of Munich

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## Table A.2-3 Campaign to gather subjects: List of letters

The following letters were employed in the campaign to gather subjects for the main study (compare Table 2-3 in Section 2.4.3 of the main report):

"I1"	Letter to the beginning sample
"I2"	Letter to those refusing
"U1"	To the target group for laboratory studies
"U2"	Letter to those refusing
"I3"	To the target group for retesting
"I4"	To people moving within the area and away from the area

The guidelines for the opening conversation of the interviewer may be found on page 22 of the Social Scientific Questionnaire; see A.4.2.3.



a

# LEBENSBEDINGUNGEN IN DER GROSSTADT

b

Prof. Dr. A. W. von EIFF, Medizinische Universitätsklinik Bonn – Prof. Dr. H. HÖRMANN Psychologisches Institut  
der Freien Univ. Berlin – Prof. Dr. M. IRLE, Institut für Sozialwissenschaften, Universität Mannheim – Doz. Dr. G. JANSEN  
Ruhruniversität Bochum – Oberregierungsrat Dr. R. MARTIN, Physikalisch-Technische Bundesanstalt Braunschweig.

DFG 8 München 80 Postfachstraße 15 Ruf 44 24 21

c

Eine wissenschaftliche  
Untersuchung  
im Rahmen der  
Deutschen  
Forschungsgemeinschaft

Abb. A.2-2 FORMULAR FÜR ANSCHREIBEN DER PBN-WERBUNG

Die Anschreiben (Texte auf den folgenden Seiten) wurden mit persönlicher Anrede und Unterschrift versehen.

d

UNTERSUCHUNGSSTATION MÜNCHEN DER DEUTSCHEN FORSCHUNGSGEMEINSCHAFT

Figure A.2-2: Form for letters in the campaign to gather subjects. Personal addresses and signatures were supplied to the letters (texts on the following pages).

Key: (see following page)

Key:

- a. LIVING CONDITIONS IN LARGE CITIES
- b. Prof. A. W. von Eiff, Medical Clinic of the University in Bonn - Prof. H. Hörmann, Institute for Psychology in the Free University in Berlin - Prof. M. Irle, Institute for Social Sciences, University in Mannheim - Dr. G. Jansen, Ruhr University in Bochum - Senior Executive Officer, Dr. R. Martin, The Institute for Physics and Technology in Braunschweig.
- c. A Scientific Study within the Framework of the Deutsche Forschungsgemeinschaft
- d. Experimental Station of the Deutsche Forschungsgemeinschaft in Munich.

A.2.4.3 Text of the Letter "II":

/17

... personal address ...

Within the framework of the German Research Association we are conducting a study on the living conditions of residents of large cities, which, in conjunction with a study in Hamburg, is to be continued in Munich.

Due to the many problems in large German cities, such studies are necessary to facilitate important decisions for the future.

Conversations and interviews with residents of various large cities aid in clarifying the social questions posed by such an investigation.

Since we can only interview a portion of the population, in Munich as in other locations, we have chosen a representative cross-section on a scientific basis.

You have also been selected. We would therefore request that you give your opinion, representing all people in Munich, on questions of the living conditions in a large city. We are not looking for expert answers, but rather your personal views.

We have made it our duty to carry out the interviews on a strictly anonymous basis. The interviewer, who will come to you, can prove his identity as an associate of this study. I will receive only the answers of the questionnaires, but not your name.

This study serves exclusively for scientific research and is in no way one of the common surveys for commercial purposes; it will be evaluated on a purely statistical basis.

I would be very pleased if you could arrange an appointment with my associate.

Please remember that each refusal for an interview considerably effects the accuracy of our results, because our random sample is then no longer representative.

We are not conducting this survey for selfish reasons; therefore your participation and assistance are very important.

Before even beginning the interview may I thank you for your cooperation.

Sincerely,

... signature ...

(Prof. M. Irle)

Text of the Letter "H1":

/18

I wish to extend to you my thanks for the interview with our associate. In this manner you have assisted in an investigation, in which knowledge for the creation of healthy living conditions in large cities is to be gained.

This includes a number of questions, which cannot be exhaustively clarified in one interview.

I would therefore be very grateful if you would be available for a further step in the investigation.

Your cooperation is extremely important for us, because it is of decisive significance for the scientific evaluation that results gained in different sections of the study from the same persons can be compared with one another.

This time we are especially concerned with modes of behavior and possibilities for reaction, which are becoming increasingly more important for residents of large cities.

Therefore I would like to request that you come to our Munich experimental station in Bogenhausen.

In order to facilitate your cooperation, the German Research Association has a car with driver. You can then be picked up and driven back home.

In case you have children, you can gladly bring them with you and leave them in our kindergarten. Provisions have been made for toys and refreshments.

I will send one of our associates to you in the near future, in order to make an appointment which is convenient for you.

May I count on your help again?

Sincerely,

(Prof. H. Hörmann)

PS: Of course you will receive remuneration for your friendly cooperation; our associate will provide you with further information when he comes.

Text of the Letter "I3":

/19

We wish to thank you again for your participation in our scientific study on living conditions in large cities.

As you know, we have in the meantime finished the survey as well as the psychological and medical examination.

In connection with the interview on the aspect of social sciences, however, one question still remains open: is there a change in the opinions and attitudes of the population on environment due to the rapidly altering living conditions in a large city?

We have therefore decided to select a small portion of the persons surveyed and to ask for a second, somewhat shorter interview.

For this reason we approach you for the last time and request a further interview. Please remember that this final interview is of great importance for the evaluation of the results.

Please permit our associate to interview within the period of time indicated below. If this is inconvenient, please let us know so that we can arrange another time.

Sincerely,

(Prof. M. Irle)

Text of the Letter "I4":

/20

Within the framework of the German Research Association we are conducting a study of living conditions of residents in cities and in the country in the Federal Republic of Germany. The present study is a continuation of a study in the area of Hamburg and is concerned with present and previous residents of Munich.

In order to clarify the social questions posed by such a study, conversations and interviews are carried out with residents of various cities and communities.

Since we can only interview a portion of the population, we have selected a representative cross-section on a scientific basis.

You have also been selected. We would therefore request that you express your opinion on questions of living conditions in the city and in the country, representative for other members of society. We are not concerned with answers of experts, but rather with your personal views.

It is our duty to conduct an anonymous survey. The interviewer, who comes to you, can show proof that he is my associate. This study serves exclusively for scientific research and is in no way one of the usual surveys for commercial purposes; it will be evaluated on a purely statistical basis.

I would be very pleased if you would conduct a conversation with my associate. Please remember that any rejection of an interview considerably affects the accuracy of our results, because our random sample is then no longer representative.

I extend my heartfelt thanks for your cooperation.

Sincerely,

(Prof. M. Irle)

PS: Our associate will be coming from Munich especially for this conversation with you. We would therefore be very grateful, if you could find time on the above-mentioned day.

If you should not be available on this day or desire a certain time of day, please write to us or call (0811-442421). We will pay for any costs you incur.

Table A.2-4 Complete Statistics on Subject in the Main Study per Cluster

/21

Structure and legend of this Table correspond to Table 2-7 in the main report (see 2.5.2)

(1) Survey on the Social Aspects

Cluster	0.	0/					S.	S-					S*	S'		S+	A	S!	
	S	Z	Y	A	F	N	R	W	U	H	E	D	U						
01	34	0	3	0	0	0	31	3	1	3	2	0	0	22	0	1'	21	0	21
02	28	0	4	0	0	0	24	0	0	4	0	0	0	20	0	0	20	0	20
03	28	0	3	0	1	0	24	0	1	6	1	0	0	16	0	0	16	0	16
04	28	0	1	0	0	0	27	0	1	0	1	2	0	23	0	0	23	0	23
05	28	0	0	0	0	1	27	1	0	3	1	0	0	22	1	0	21	1	22
06	28	0	2	0	0	0	26	2	2	4	0	0	0	18	0	0	18	0	18
07	34	0	2	0	0	0	32	0	4	3	0	0	0	25	0	0	25	0	25
08	28	0	0	0	1	0	27	1	0	2	0	1	0	23	0	0	23	0	23
09	28	0	2	0	0	0	26	2	0	3	0	1	0	20	1	0	19	1	20
10	28	0	0	0	0	3	25	0	1	8	0	1	0	15	0	0	15	0	15
11	28	0	0	0	0	0	28	1	0	3	1	0	0	23	0	0	23	0	23
12	33	0	2	0	0	0	31	1	0	9	0	0	0	21	0	0	21	0	21
13	28	0	5	0	0	0	23	0	0	3	0	0	0	20	2	0	18	2	20
14	28	0	4	0	0	0	24	0	0	2	1	0	0	21	0	0	21	0	21
15	29	0	5	0	0	1	23	0	0	4	0	1	0	18	1	0	17	1	18
16	36	0	1	0	0	1	34	5	0	6	0	1	0	22	0	0	22	0	22
17	28	0	1	0	0	1	26	2	0	3	0	0	0	21	0	0	21	0	21
18	34	0	1	0	0	0	33	0	0	7	0	0	1	25	0	0	25	0	25
19	37	0	6	0	0	0	31	4	1	3	0	0	0	23	0	0	23	0	23
20	28	0	3	0	0	1	24	2	3	0	1	1	0	17	0	0	17	0	17
21	28	0	3	0	0	0	25	0	0	4	0	0	0	21	0	0	21	0	21
22	28	0	1	1	0	1	25	2	0	0	1	1	0	21	1	0	20	1	21
23	28	1	1	1	0	0	25	0	1	0	0	0	0	24	0	0	24	0	24
24	34	0	3	0	0	1	30	3	1	6	1	0	0	19	0	0	19	0	19
25	28	0	3	1	0	1	23	0	0	6	1	0	0	16	0	0	16	0	16
26	28	0	0	0	0	0	28	0	0	4	0	0	0	24	1	0	23	0	23
27	37	0	5	0	0	0	32	1	1	5	3	0	0	22	0	1	21	0	21
28	28	0	4	0	0	0	24	0	0	2	1	1	0	20	0	0	20	0	20
29	28	0	1	0	0	1	26	2	0	3	0	0	0	21	0	0	21	0	21
30	28	0	3	0	0	0	25	0	0	4	0	1	0	20	0	0	20	0	20
31	28	0	1	0	0	0	27	0	0	6	1	0	0	20	1	0	19	1	20
32	28	1	0	0	0	0	27	1	1	4	1	0	0	20	0	0	20	0	20
Total	952	2	70	3	2	12	863	33	18	120	17	11	1	663	8	2	653	7	660

Table A.2-4, Continuation:

/22

## (2) Study of the Psychological Aspects

Cluster	S*	O/		P.	P-						P*	P'			P+	&	P!
		A	Z		N	R	W	U	E	K		P	D	U			
01	22	4	0	18	0	0	2	0	2	0	14	0	1	2''	11	1	12
02	20	5	0	15	0	1	3	0	0	0	11	1	0	0	10	1	11
03	16	2	0	14	0	0	3	0	0	0	11	0	0	0	11	0	11
04	23	5	0	18	0	0	4	1	0	0	13	1'	0	1'	11	0	11
05	22	6	0	16	1	0	1	0	0	0	14	0	0	0	14	0	14
06	18	3	0	15	0	0	3	0	0	0	12	0	0	0	12	0	12
07	25	8	0	17	0	0	1	0	2	0	14	1	0	0	13	1	14
08	23	2	0	21	0	0	7	0	1	0	13	1	1'	0	11	1	12
09	20	5	0	15	0	0	3	1	0	1	10	1	0	0	9	1	10
10	15	4	1	10	0	1	1	0	0	0	8	0	1	0	7	1	8
11	23	6	0	17	0	0	3	1	0	0	13	0	0	1'	12	0	12
12	21	5	0	16	0	0	5	0	0	0	11	1'	0	0	10	0	10
13	20	8	0	12	0	0	2	0	0	1	9	1'	1'	0	7	0	7
14	21	5	1	15	0	0	0	0	1	0	14	0	4''	0	10	2	12
15	18	3	0	15	0	0	3	0	0	0	12	0	1	1'	10	1	11
16	22	4	0	18	0	0	7	0	0	0	11	1	0	0	10	1	11
17	21	3	0	18	0	0	2	0	2	0	14	1	0	0	13	1	14
18	25	3	1	21	0	0	7	0	0	0	14	2	0	0	12	2	14
19	23	5	0	18	1	1	2	0	1	0	13	0	0	0	13	0	13
20	17	2	0	15	0	0	2	0	2	0	11	1'	2'	0	8	1	9
21	21	5	0	16	1	0	3	0	2	0	10	0	0	0	10	0	10
22	21	3	1	17	1	1	2	0	0	1	12	1'	0	1'	10	0	10
23	24	4	0	20	0	2	2	1	1	1	13	0	0	1'	12	0	12
24	19	5	0	14	0	0	2	0	0	0	12	1'	0	0	11	0	11
25	16	0	0	16	0	0	0	0	1	0	15	1'	0	0	14	0	14
26	24	4	0	20	0	0	3	0	2	0	15	0	0	1'	14	0	14
27	22	4	0	18	2	0	5	1	1	0	9	0	0	0	9	0	9
28	20	6	0	14	0	0	2	1	0	0	11	0	0	0	11	0	11
29	21	5	0	16	0	0	0	0	0	0	16	1	1'	0	14	1	15
30	20	5	0	15	0	0	1	0	0	0	14	1	1'	0	12	1	13
31	20	2	1	17	0	0	2	0	3	0	12	0	0	1'	11	0	11
32	20	3	0	17	0	0	0	0	0	0	17	1	0	0	16	1	17
Total	663	134	5	524	6	6	83	6	21	4	398	18	13	9	158	17	175

Table A.2-4, Continuation:

## (3) Study of the Medical Aspects

Cluster	S*	O/Z		M	N	R	M				M*	P	M	D	I	U	M*	A	M*
		A	Z				W	U	E	K									
01	22	4	0	18	0	0	5	0	0	0	13	0	2	1	0	0	10	3	13
02	20	5	0	15	0	1	3	0	0	0	11	0	2	1	0	0	8	3	11
03	16	2	0	14	0	0	3	0	0	0	11	0	2	2	0	0	7	4	11
04	23	4	0	19	0	0	4	1	0	0	14	0	3	2	0	0	9	5	14
05	22	6	0	16	1	0	1	0	0	0	14	0	3	3	0	0	8	6	14
06	18	3	0	15	0	0	3	0	1	0	11	1	2	0	0	0	8	2	10
07	25	5	0	20	0	0	1	0	3	0	16	0	2	2	0	0	12	4	16
08	23	2	0	21	0	0	7	0	1	0	13	1	2	6	0	0	4	9	13
09	20	4	0	16	0	1	3	1	0	1	10	0	2	2	0	0	6	4	10
10	15	3	1	11	0	1	1	1	0	0	8	1	1	1	0	0	5	3	8
11	23	6	0	17	0	0	3	1	0	0	13	1	3	1	1	1	7	6	13
12	21	5	0	16	0	0	5	0	0	0	11	0	2	1	0	0	8	3	11
13	20	8	0	12	0	0	2	0	1	1	8	0	1	0	0	0	7	1	8
14	21	2	1	18	0	0	1	0	1	0	16	0	3	0	0	0	13	3	16
15	18	3	0	15	0	0	2	0	0	1	12	0	2	1	0	0	9	3	12
16	22	4	0	18	0	0	7	0	0	0	11	0	2	0	0	0	9	2	11
17	21	2	0	19	0	0	2	1	1	0	15	0	2	0	0	0	13	2	15
18	25	2	1	22	0	0	8	0	0	0	14	2	0	2	0	0	10	4	14
19	23	4	0	19	0	1	5	0	1	0	12	1	0	0	0	0	11	1	12
20	17	2	0	15	0	0	3	0	1	0	11	0	1	0	0	0	10	1	11
21	21	5	0	16	1	0	4	0	0	0	11	1	3	2	0	0	5	6	11
22	21	3	1	17	1	2	2	0	1	0	11	0	0	1	0	0	10	1	11
23	24	3	0	21	0	2	7	2	0	1	9	0	3	0	0	0	6	3	9
24	19	4	0	15	0	0	2	0	0	0	13	0	0	2	0	0	11	2	13
25	16	0	0	16	1	0	2	0	1	0	12	0	1	0	0	0	11	1	12
26	24	4	0	20	0	0	3	0	2	0	15	0	1	1	0	0	13	2	15
27	22	4	0	18	2	0	5	1	1	0	9	0	1	1	0	0	7	2	9
28	20	6	0	14	0	0	3	1	0	0	10	0	3	2	0	0	5	5	10
29	21	5	0	16	0	0	0	0	0	0	16	0	4	3	0	0	9	7	16
30	20	4	0	16	1	0	2	0	0	0	13	1	6	3	0	0	3	10	13
31	20	1	1	18	1	0	2	0	2	0	13	2	2	1	0	0	8	5	13
32	20	3	0	17	0	0	0	0	0	0	17	0	5	0	0	0	12	5	17
Total	663	118	5	540	8	8	101	9	17	4	393	11	66	41	1	1	274	118	392



Table A.2-4, Continuation:

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## (4) Interdisciplinary Core

Cluster	<u>S.</u>	<u>A</u>	<u>I.</u>	<u>S-</u>	<u>S*</u>	<u>Z</u>	<u>P-</u> M-	<u>P*</u> M-	<u>P-</u> M*	<u>I*</u>	<u>P'</u> M'	<u>P'</u> M+	<u>P+</u> M'	<u>I+</u>	<u>A</u>	<u>I!</u>
01	31	9	22	4	18	0	3	2	1	12	0	2	1	9	3	12
02	24	7	17	2	15	0	4	0	0	11	0	1	2	8	3	11
03	24	2	22	8	14	0	3	0	0	11	0	0	2	9	2	11
04	27	6	21	3	18	0	5	0	0	13	1'	1'	2	9	2	11
05	27	6	21	5	16	0	2	0	0	14	0	0	3	11	3	14
06	26	6	20	5	15	0	3	1	0	11	0	0	3'	8	2	10
07	32	10	22	5	17	0	3	0	0	14	0	2	2	10	4	14
08	27	4	23	2	21	0	8	0	0	13	1'	1	2'	9	2	11
09	26	6	20	5	15	0	0	0	0	10	1	0	1	8	2	10
10	25	6	19	8	11	1	2	0	0	8	1	0	1	6	2	8
11	28	6	22	5	17	0	4	0	0	13	1'	0	4	8	4	12
12	31	8	23	7	16	0	5	0	0	11	0	2'	2	7	3	10
13	23	8	15	3	12	0	3	1	0	8	1'	2'	0	5	1	6
14	24	5	19	3	16	1	1	0	0	14	1	4''	2	7	5	12
15	23	4	19	4	15	0	3	0	0	12	0	2'	2	8	3	11
16	34	5	29	11	18	0	7	0	0	11	1	1	1	8	3	11
17	26	4	22	4	18	0	3	0	1	14	0	1	2	11	3	14
18	33	7	26	4	22	1	7	1	0	13	0	1	1	11	2	13
19	31	6	25	7	18	0	5	0	1	12	0	0	1	11	1	12
20	24	3	21	6	15	0	4	0	0	11	1	3''	0	7	2	9
21	25	5	20	4	16	0	5	0	1	10	1	0	3	6	4	10
22	25	3	22	4	18	1	4	2	1	10	0	3''	0	7	1	8
23	25	4	21	1	20	0	7	5	0	8	0	1	3	4	4	8
24	30	7	23	9	14	0	2	0	0	12	0	1'	0	11	0	11
25	23	1	22	6	16	0	1	3	0	12	0	3'	1	8	3	11
26	28	4	24	4	20	0	0	0	0	15	0	1'	1	13	1	14
27	32	5	27	9	18	0	9	0	0	9	0	1	1	7	2	9
28	24	7	17	3	14	0	3	1	0	10	0	0	3	7	3	10
29	26	6	20	4	16	0	0	0	0	16	0	2'	4	10	5	15
30	25	6	19	4	15	0	1	2	0	12	1'	1	6	4	7	11
31	27	2	25	7	18	1	4	0	1	12	1'	0	3	8	3	11
32	27	3	24	7	17	0	0	0	0	17	1	1	4	11	6	17
Total	863	171	692	163	529	5	121	18	6	379	13	37	63	266	91	357

Table A.2-4, Continuation:

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## (5) Retest of the Social Aspects

Cluster	S*	R.	R-						R*	R'	R!	K: und I!
			N	R	U	W	E	O				
01	22	8	0	0	1	1	0	1	5	0	5	5
02	20	5	0	0	0	0	0	1	4	0	4	3
03	16	5	0	0	0	0	0	1	4	0	4	4
04	23	8	0	0	0	1	0	1	6	0	6	4
05	22	7	0	2	0	3	0	1	1	0	1	1
06	18	5	0	0	0	0	0	1	4	0	4	2
07	25	8	0	1	0	1	1	0	5	1	4	1
08	23	7	0	1	0	3	1	0	2	0	2	2
09	20	7	0	0	0	0	0	1	6	0	6	5
10	15	5	1	0	0	2	0	1	1	0	1	1
11	23	7	2	0	0	0	0	0	5	0	5	3
12	21	6	0	1	0	1	0	0	4	0	4	2
13	20	6	0	0	0	1	0	0	5	0	5	2
14	21	5	1	0	0	0	0	0	4	0	4	4
15	18	5	0	0	0	0	0	0	5	0	5	3
16	22	8	0	2	0	1	0	0	5	0	5	3
17	21	7	1	0	0	1	0	0	5	0	5	5
18	25	8	0	0	0	3	0	3	2	0	2	1
19	23	6	1	0	0	1	0	0	4	0	4	4
20	17	4	0	0	0	0	0	2	2	0	2	0
21	21	6	2	1	0	0	0	3	0	0	0	0
22	21	5	2	0	0	0	0	0	3	0	3	2
23	24	8	0	0	1	1	0	0	6	0	6	2
24	19	8	1	1	0	2	0	2	2	0	2	2
25	16	5	1	0	0	0	0	2	2	0	2	1
26	24	7	2	1	0	1	0	0	3	0	3	2
27	22	7	2	0	0	3	0	0	2	0	2	1
28	20	6	0	0	0	0	0	2	4	0	4	2
29	21	7	1	0	0	0	0	5	1	0	1	1
30	20	6	2	0	0	0	0	0	4	0	4	2
31	20	7	2	0	0	1	0	0	4	0	4	2
32	20	7	1	0	0	0	0	0	6	0	6	5
Total	663	206	22	10	2	27	2	27	116	1	115	77

A.3.0 Table of Contents

A.3.2.1	Table A.3-1	List of the Measuring Locations of the Preliminary Study in Hamburg
A.3.2.2	Table A.3-2	List of the Measuring Locations in the Preliminary Measurement in Munich
A.3.2.3	Table A.3-3	List of 32 Measuring Points of the Main Measurement
A.3.3.1	Table A.3-4	Plan for Changes in the Measuring Stations
A.3.4.1.4	Table A.3-5	Level/Duration Matrix (22 x 5) of all Fly-Overs in the Area under Investigation
	Table A.3-6	Level/Duration Matrices (22 x 5) of the Fly-Overs at all Measuring Points

## A.3.2.1

Table A.3-1: List of the Measuring Locations of the Preliminary Investigation in Hamburg

a. Meßpunkt	
1	Niendorf, Schullager
2	Niendorf, Kollastraße
3	Bramfeld, Seekamp/B434
4	Langenhorn, Willersweg
5	Niendorf, Vogt-Cordes-Damm
6	Langenhorn, Langenhorner Chaussee
b	
zusätzlich 12 Parallelmeßpunkte mit Kurzzeitmessungen	

Key:

- a. measuring point  
 b. additionally 12 parallel measuring points with short-time measurements

## A.3.2.2

Table A.3-2: List of the Measuring Locations of the Preliminary Measurement in Munich

1. Meßpunkte der großen Meßapparatur		d
a) Bajuwarenstr. (Feuerwehr)	b	Nähe Mp 13, Mp 14
b) Schwanseeplatz (Outer Marker)		Nähe Mp 21, Mp 24
c) Daglfinger Str.		Nähe Mp 18
d) Truderinger Str. (Rotes Kreuz)	c	Nähe Mp 8, Mp 10
e) Halleiner Str.		Südwestlich Mp 28
2. Parallelmeßpunkte		
a) Adam-Berg-Str.		
b) Albrecht-Dürer-Str.		
c) Dornacher Weg		
d) Feldkirch Nord	g	
e) Feldkirch Mitte	h	
f) Feldkirch Süd	l	
g) Fideliostr.		
j	h) Flughafengrenze Nord	
	i) Flughafengrenze Süd	k
	j) Flughafengrenze West	l
	k) Friedenspromenade	
	l) Isarufer	
	m) Piusplatz	
	n) Schüleinplatz	
	o) Schwanseestr.	
	p) Sonnenwendjochstr.	
	q) Spitzingplatz	
	r) Wackersbergerstr.	
	s) Watzmannstr.	

Key:

- |  |                              |
|--|------------------------------|
| a. measuring points of the large measuring apparatus | e. southwest of              |
| b. fire fighting station                             | f. parallel measuring points |
| c. red cross   | g. north                     |
| d. near  | h. middle                    |
|  | i. south                     |
|  | j. airport boundary          |
|  | k. southeast                 |
|  | l. west                      |

Table A.3-3: List of the 32 Measuring Points in the Main Measurements

a Meßpunkt	b Straße	c Aufstellung
1	Emplstr. 2	d Schuppendach
2	Lehrer-Götz-Weg 22	Garagendach <sup>e</sup>
3	Ickelsamer Str. 12	f Garten
4	Frau-von-Uta-Str. 6	Garten
5	Brodstr. 1a	Schuppendach
6	Ickelsamer Str. 21	Garten
7	Truderinger Str. 293	Garten
8	Truderinger Str. 276	Garagendach
9	In der Rosenau 5	Garagendach
10	Scharer Weg 12	Garagendach
11	Leonhardstr. 22	Garten
12	Xaver-Weißmoorstr. 23	Garten
13	Mönchbergstr. 34	Garten
14	Damaschkestr. 9	Garten
15	Windbauer Str. 6	Garten
16	Leonhardstr. 47	Garagendach
17	Dukatenstr. 2	Garten
18	Schneidemühler Str. 4	Garten
19	Van-Eyck-Str. 8	Garten
20	Emdenstr. 28	Garten
21	Görzer Str. 74	Schuppendach
22	Bodenschneidstr. 12	Schuppendach
23	Beuthener Str. 9	Garten
24	Hohenschwangastr. 29	Garagendach
25	Stoizingstr. 8	g Hochhausdach
26	Langbürgener Str. 6	Hochhausdach
27	Kager Str. 12	Garten
28	Herrmann-Schaller-Str. 24	Schuppendach
29	Säbener Str. 240	Garten
30	Krenklstr. 34	Garten
31	Virgilstr. 9	Hochhausdach
32	Fideliostr. 156	Hochhausdach

## Key:

- a. measuring point
- b. street
- c. positioning
- d. shed roof

- e. garage roof
- f. garden
- g. roof of apartment building

Table A.3-4 Plan for Changes in Measuring Stations  
(Employment of 12 Measuring Stations A...M; a Section of  
the Schedule)

a Tag	b 1 Meßpunktgruppe												b 2 Meßpunktgruppe												b 3 Meßpunktgruppe												Service Reserve
	01	04	07	09	13	16	19	23	25	26	28	02	05	06	08	12	14	20	22	29	31	32	03	10	11	15	17	18	21	24	27	30					
Sa 10.5	A	B	C	D	E	F	G	H	I	K	L	M	A	B	C	D	E	F	G	H	I	K	L	M	A	B	C	D	E	F	G	H	I	K	L	M	
Sa 11.5																																					
Mo 12.5	K	L	M	A	B	C	D	E	F	G	H	I	K	L	M	A	B	C	D	E	F	G	H	I	K	L	M	A	B	C	D	E	F	G	H	I	
Di 13.5																																					
Mi 14.5	G	H	I	K	L	M	A	B	C	D	E	F	G	H	I	K	L	M	A	B	C	D	E	F	G	H	I	K	L	M	A	B	C	D	E	F	
Do 15.5																																					
Fr 16.5	D	E	F	G	H	I	K	L	M	A	B	C	D	E	F	G	H	I	K	L	M	A	B	C	D	E	F	G	H	I	K	L	M	A	B		
Sa 17.5																																					
So 18.5	C	D	E	F	G	H	I	K	L	M	A	B	C	D	E	F	G	H	I	K	L	M	A	B	C	D	E	F	G	H	I	K	L	M	A		
Mo 19.5																																					
Di 20.5	A	B	C	D	E	F	G	H	I	K	L	M	A	B	C	D	E	F	G	H	I	K	L	M	A	B	C	D	E	F	G	H	I	K	L		
Mi 21.5																																					
Do 22.5	A	B	C	D	E	F	G	H	I	K	L																										
Fr 23.5												d																									
Mo 30.6												M	A	B	C	D	E	F	G	H	I	K													L		

Key:

- a. day
- b. measuring point group
- c. Saturday, May 10  
Sunday, May 11  
Monday, May 12  
Tuesday, May 13  
Wednesday, May 14  
Thursday, May 15  
Friday, May 16  
Saturday, May 17  
Sunday, May 18  
Monday, May 19  
Tuesday, May 20  
Wednesday, May 21  
Thursday, May 22  
Friday, May 23

- d. Monday, June 30  
as on May 11, etc.

Table A.3-5 Level/Duration Matrix 22x5 of all Fly-Over in the Area Under Investigation (The Matrix cells contain the Number of the Fly-Over Events of the Individual Level/Duration Combination)

A.3.5 Pegel/Dauer-Matrix 22x5 aller Überflüge im Untersuchungsgebiet  
(Die Matrixzellen enthalten die Anzahl der Überflüge der jeweiligen Pegel/Dauer-Kombination)

a Dauer		0...10	11...20	21...30	31...40	>40	dSumme
b c Klassen		1	2	3	4	5	
1	1	40	80	32	16	4	172
2	2	79	159	57	13	12	320
3	3	109	199	78	25	28	439
4	4	153	310	155	52	32	702
5	5	228	342	169	55	40	834
6	6	257	453	189	72	39	1010
7	7	245	502	211	53	2	1033
8	8	242	437	191	46	16	932
9	9	303	709	259	41	7	1319
10	10	316	640	215	37	9	1217
11	11	340	614	174	30	4	1162
12	12	364	695	137	20	2	1218
13	13	374	582	75	12	1	1044
14	14	345	516	66	6	0	933
15	15	261	403	41	1	0	706
16	16	196	318	18	3	1	536
17	17	129	268	12	0	0	409
18	18	98	186	2	0	0	286
19	19	75	102	6	0	0	183
20	20	45	49	1	0	0	95
21	21	22	19	0	0	0	41
22	22	0	0	0	0	0	0
dSumme		4221	7583	2088	482	217	

e A-Schallpegel in dB Dauern D<sub>10</sub> in s

Key:

- a. duration  
b. level  
c. classes

- d. sum  
e. A sound level in dB  
duration of D<sub>10</sub> in sec.

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Table A.3-6 Level/Duration Matrix 22x5 of the Fly-Overs (Coordination of Classes to Level Values and Duration Values as in Table A.3-5)

Mp 01							Mp 02						
a	Dauer	1	2	3	4	5	b	Dauer	1	2	3	4	5
b	Pegel							Pegel					
1	0	0	0	0	0	0	1	2	2	0	0	0	4
2	0	2	0	0	0	2	2	3	4	1	0	0	8
3	0	5	2	0	0	7	3	4	9	2	0	0	15
4	9	8	1	0	1	19	4	5	2	2	0	0	9
5	8	7	1	0	0	16	5	14	6	2	0	0	22
6	10	7	1	0	0	18	6	20	5	2	1	0	28
7	11	2	0	0	0	13	7	30	6	0	0	0	36
8	21	2	0	0	0	23	8	16	7	4	0	0	27
9	38	5	0	0	0	43	9	13	17	2	0	0	32
10	36	7	1	0	0	44	10	14	12	2	1	0	29
11	40	6	3	0	0	49	11	26	23	4	0	0	53
12	43	17	0	0	0	60	12	28	51	6	0	0	85
13	35	20	1	0	0	56	13	20	59	7	0	0	86
14	31	37	0	0	0	68	14	29	61	2	0	0	92
15	34	33	1	0	0	68	15	14	38	2	0	0	54
16	55	40	2	0	0	97	16	6	29	1	0	1	37
17	32	29	3	0	0	64	17	9	36	1	0	0	46
18	16	28	1	0	0	45	18	5	25	0	0	0	30
19	14	18	3	0	0	35	19	5	9	1	0	0	15
20	9	16	0	0	0	25	20	0	0	1	0	0	1
21	5	5	0	0	0	10	21	0	1	0	0	0	1
22	0	0	0	0	0	0	22	0	0	0	0	0	0
447						1	263						
294						2	402						
20						3	42						
0						4	2						
1						5	1						

Mp 03						Mp 04							
a	Dauer	1	2	3	4	5	b	Dauer	1	2	3	4	5
b	Pegel							Pegel					
1	0	0	0	0	0	0	1	0	0	0	0	0	0
2	2	3	0	0	0	5	2	0	1	0	0	0	1
3	6	2	1	0	0	9	3	4	1	0	0	0	5
4	6	4	0	0	0	10	4	4	3	2	0	0	9
5	8	4	0	0	0	12	5	4	7	1	0	0	12
6	18	2	2	0	0	22	6	6	7	6	0	0	19
7	15	4	0	0	0	19	7	3	3	1	1	0	8
8	19	4	1	0	0	24	8	11	7	1	0	0	19
9	30	5	0	0	0	35	9	14	10	1	0	0	25
10	37	4	3	0	0	44	10	21	8	0	0	1	30
11	41	17	2	0	0	60	11	26	9	0	0	0	35
12	48	17	0	0	0	65	12	25	10	1	0	0	36
13	85	40	3	0	0	128	13	34	24	0	0	0	58
14	98	47	4	0	0	149	14	36	25	1	0	0	62
15	65	50	5	0	0	120	15	27	27	1	0	0	55
16	37	37	1	0	0	75	16	25	22	2	0	0	49
17	33	28	1	0	0	62	17	15	21	0	0	0	36
18	22	22	0	0	0	44	18	21	13	0	0	0	34
19	23	9	1	0	0	33	19	10	12	0	0	0	22
20	14	7	0	0	0	21	20	7	4	0	0	0	11
21	8	1	0	0	9	9	21	6	6	0	0	0	12
22	0	0	0	0	0	0	22	0	0	0	0	0	0
615						1	299						
307						2	220						
24						3	17						
0						4	1						
0						5	1						

Key: (applies to the following table pages)

a. duration

b. level



Table A.3-6 Continuation

a b	Mp 05 Dauer Pegel						Mp 06 Dauer Pegel					
	1	2	3	4	5		1	2	3	4	5	
1	0	0	0	0	0	0	1	2	0	0	0	2
2	0	2	0	0	0	2	2	1	4	1	0	6
3	3	3	1	0	0	7	3	2	2	1	0	5
4	1	5	2	0	0	8	4	2	5	1	0	8
5	1	8	3	3	0	15	5	3	3	1	0	7
6	4	11	12	1	0	28	6	3	2	1	0	6
7	5	15	12	2	0	34	7	5	11	0	0	16
8	5	18	10	6	1	40	8	5	0	0	0	5
9	3	31	20	2	0	56	9	9	4	1	0	14
10	5	27	20	2	0	54	10	12	14	0	0	26
11	3	46	10	1	0	60	11	9	21	1	0	31
12	6	42	9	0	0	57	12	26	44	3	0	73
13	5	24	6	0	0	35	13	37	43	0	1	81
14	1	16	7	1	0	25	14	30	52	2	0	84
15	2	5	2	0	0	9	15	32	55	0	0	87
16	1	6	2	0	0	9	16	15	40	0	1	56
17	0	5	1	0	0	6	17	11	43	1	0	55
18	0	1	0	0	0	1	18	13	47	0	0	60
19	0	0	0	0	0	0	19	7	15	0	0	22
20	0	0	0	0	0	0	20	4	8	0	0	12
21	0	0	0	0	0	0	21	1	1	0	0	2
22	0	0	0	0	0	0	22	0	0	0	0	0
	45	265	117	18	1			229	414	13	2	0

a b	Mp 07 Dauer Pegel						Mp 08 Dauer Pegel					
	1	2	3	4	5		1	2	3	4	5	
1	0	0	0	0	0	0	1	0	0	0	1	1
2	0	0	0	0	0	0	2	0	1	0	0	1
3	1	4	1	0	0	6	3	1	2	2	1	6
4	0	2	0	1	0	3	4	1	8	8	1	19
5	4	2	1	0	0	7	5	8	11	6	0	25
6	6	6	2	0	0	14	6	11	18	4	1	35
7	6	0	3	0	0	9	7	14	30	3	2	49
8	11	4	0	0	0	15	8	6	22	3	0	31
9	21	6	1	0	0	28	9	7	35	5	0	47
10	24	9	0	0	0	33	10	6	23	6	3	38
11	26	13	0	0	0	39	11	4	35	1	1	41
12	30	30	2	0	0	62	12	9	65	7	1	82
13	25	21	3	0	0	49	13	6	62	4	1	73
14	32	25	2	0	0	59	14	4	39	7	1	51
15	39	21	3	0	0	63	15	1	41	4	1	47
16	19	25	3	0	0	47	16	1	27	1	2	31
17	9	19	2	0	0	30	17	2	18	1	0	21
18	9	17	0	0	0	26	18	0	9	1	0	10
19	7	13	0	0	0	20	19	0	7	1	0	8
20	3	5	0	0	0	8	20	1	1	0	0	2
21	1	4	0	0	0	5	21	0	0	0	0	0
22	0	0	0	0	0	0	22	0	0	0	0	0
	273	226	23	1	0			82	454	64	16	2

Table A.3-6 Continuation

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a b	Mp 09 Dauer Pegel						Mp 10 Dauer Pegel					
	1	2	3	4	5		1	2	3	4	5	
1	0	0	0	0	0	0	1	0	0	0	0	0
2	0	1	0	0	0	1	2	0	0	0	0	0
3	0	3	2	1	2	8	3	0	3	2	0	5
4	1	13	12	2	1	29	4	1	6	3	1	11
5	6	14	9	5	4	38	5	5	11	1	1	18
6	7	14	16	5	14	56	6	6	8	1	0	15
7	6	16	25	3	3	53	7	6	9	1	0	16
8	6	13	19	4	3	45	8	11	10	1	1	23
9	4	9	10	5	2	30	9	30	15	2	0	47
10	2	14	9	0	1	26	10	34	21	2	0	57
11	0	12	6	3	1	22	11	45	16	2	0	63
12	1	9	3	1	0	14	12	54	34	3	1	92
13	0	5	0	0	0	5	13	44	31	5	0	80
14	1	1	0	0	0	2	14	25	43	3	0	71
15	0	0	1	0	0	1	15	14	34	1	0	49
16	0	1	0	0	0	1	16	12	34	0	0	46
17	0	0	0	0	0	0	17	11	31	1	0	43
18	0	0	0	0	0	0	18	0	17	0	0	17
19	0	0	0	0	0	0	19	4	13	0	0	17
20	0	0	0	0	0	0	20	5	6	0	0	11
21	0	0	0	0	0	0	21	1	1	0	0	2
22	0	0	0	0	0	0	22	0	0	0	0	0
	34	125	112	29	31			308	343	28	4	0

a b	Mp 11 Dauer Pegel						Mp 12 Dauer Pegel					
	1	2	3	4	5		1	2	3	4	5	
1	0	0	0	0	0	0	1	0	3	0	0	3
2	0	1	1	1	0	3	2	0	0	2	0	2
3	1	8	7	1	1	18	3	1	0	2	5	13
4	1	11	5	5	1	23	4	0	8	11	11	31
5	2	11	7	1	0	21	5	0	4	9	6	22
6	1	23	6	1	0	31	6	4	7	9	9	31
7	5	33	13	3	0	54	7	1	3	11	2	17
8	6	24	5	3	0	38	8	1	8	5	0	14
9	6	60	12	2	0	80	9	2	13	4	0	19
10	0	45	19	1	0	65	10	2	9	1	0	12
11	1	26	6	0	0	33	11	0	2	0	0	2
12	1	40	10	0	0	51	12	3	3	0	0	6
13	2	25	4	0	0	31	13	1	2	0	0	3
14	1	25	7	0	0	33	14	0	0	0	0	0
15	1	12	2	0	0	15	15	0	0	0	0	0
16	0	5	1	0	0	6	16	0	0	0	0	0
17	0	2	0	0	0	2	17	0	0	0	0	0
18	0	0	0	0	0	0	18	0	0	0	0	0
19	0	0	0	0	0	0	19	0	0	0	0	0
20	0	0	0	0	0	0	20	0	0	0	0	0
21	0	0	0	0	0	0	21	0	0	0	0	0
22	0	0	0	0	0	0	22	0	0	0	0	0
	28	351	105	18	2			15	62	54	33	11

Table A.3-6 Continuation

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Mp 13 Dauer Pegel							Mp 14 Dauer Pegel						
	1	2	3	4	5			1	2	3	4	5	
1	0	0	0	0	0	0	1	0	0	0	0	0	0
2	0	0	0	0	0	0	2	2	0	0	0	0	2
3	1	2	0	0	0	3	3	2	3	1	0	1	7
4	5	2	0	0	0	7	4	11	7	3	0	0	21
5	9	6	0	0	0	15	5	11	6	4	1	0	22
6	17	10	1	1	0	29	6	18	10	1	0	0	29
7	25	11	2	0	0	38	7	16	22	2	0	0	40
8	16	16	2	0	0	34	8	18	11	1	0	0	30
9	17	26	6	0	0	49	9	23	40	5	0	0	68
10	27	27	5	0	0	59	10	21	39	4	1	0	65
11	41	33	6	0	0	80	11	21	54	4	1	0	80
12	49	45	3	0	0	97	12	17	59	4	0	0	80
13	38	30	2	0	0	70	13	14	34	3	0	0	51
14	23	31	2	0	0	56	14	14	24	1	0	0	39
15	19	29	2	0	0	50	15	9	23	2	0	0	34
16	11	19	0	0	0	30	16	0	10	0	0	0	10
17	3	18	0	0	0	21	17	2	4	0	0	0	6
18	3	5	0	0	0	8	18	5	2	0	0	0	7
19	3	4	0	0	0	7	19	2	0	0	0	0	2
20	2	2	0	0	0	4	20	0	0	0	0	0	0
21	0	0	0	0	0	0	21	0	0	0	0	0	0
22	0	0	0	0	0	0	22	0	0	0	0	0	0
	309	316	31	1	0			206	348	35	3	1	

Mp 15 Dauer Pegel							Mp 16 Dauer Pegel						
	1	2	3	4	5			1	2	3	4	5	
1	0	0	0	0	0	0	1	0	1	0	0	0	1
2	0	1	1	0	0	2	2	3	4	3	1	0	11
3	0	7	7	1	0	15	3	4	5	3	1	0	13
4	2	17	14	8	0	41	4	12	9	11	2	0	34
5	4	23	9	3	1	40	5	14	12	9	3	1	39
6	5	31	14	6	1	57	6	11	34	7	5	2	59
7	9	32	2	0	0	43	7	9	43	20	10	1	83
8	10	29	2	1	0	42	8	8	50	23	5	2	88
9	18	36	1	0	0	55	9	4	92	25	1	1	123
10	16	42	1	0	0	59	10	4	45	31	2	0	82
11	23	29	2	0	0	54	11	3	56	22	2	2	85
12	8	23	0	0	0	31	12	1	40	15	2	1	59
13	10	16	0	0	0	26	13	3	19	7	4	0	33
14	5	7	0	0	0	12	14	2	17	12	2	0	33
15	0	2	1	0	0	3	15	0	3	6	0	0	9
16	8	5	0	0	0	13	16	0	6	3	0	0	9
17	2	0	0	0	0	2	17	0	1	1	0	0	2
18	3	0	0	0	0	3	18	0	0	0	0	0	0
19	0	0	0	0	0	0	19	0	0	0	0	0	0
20	0	0	0	0	0	0	20	0	0	0	0	0	0
21	0	0	0	0	0	0	21	0	0	0	0	0	0
22	0	0	0	0	0	0	22	0	0	0	0	0	0
	123	300	54	19	2			78	437	198	40	10	

ORIGINAL PAGE IS  
OF POOR QUALITY

Table A.3-6 Continuation

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a b	Mp 17 Dauer Pegel						Mp 18 Dauer Pegel					
	1	2	3	4	5		1	2	3	4	5	
1	0	0	0	0	0	0	1	0	0	0	0	0
2	0	0	0	0	0	0	2	0	1	0	0	1
3	2	8	2	0	0	12	3	0	0	1	1	2
4	8	12	6	0	0	26	4	0	2	1	0	4
5	7	14	9	0	0	30	5	1	3	5	0	10
6	11	25	9	3	0	48	6	1	3	3	3	13
7	9	37	8	2	1	57	7	1	2	3	4	10
8	9	23	10	0	0	42	8	2	4	5	1	12
9	10	34	12	3	1	60	9	1	5	7	0	13
10	5	30	16	4	0	55	10	1	3	1	0	5
11	5	39	13	0	0	57	11	0	2	0	0	2
12	0	33	10	1	1	45	12	0	0	0	0	0
13	4	35	4	1	0	44	13	0	0	0	0	0
14	2	23	6	1	0	32	14	0	0	0	0	0
15	2	12	3	0	0	17	15	0	0	0	0	0
16	2	9	1	0	0	12	16	0	0	0	0	0
17	0	11	0	0	0	11	17	0	0	0	0	0
18	0	0	0	0	0	0	18	0	0	0	0	0
19	0	1	0	0	0	1	19	0	0	0	0	0
20	0	0	0	0	0	0	20	0	0	0	0	0
21	0	0	0	0	0	0	21	0	0	0	0	0
22	0	0	0	0	0	0	22	0	0	0	0	0
	76	346	109	15	3			7	25	26	9	5

a b	Mp 19 Dauer Pegel						Mp 20 Dauer Pegel					
	1	2	3	4	5		1	2	3	4	5	
1	0	0	0	0	0	0	1	1	3	0	1	5
2	0	1	0	0	0	1	2	4	13	9	1	27
3	0	3	1	1	0	5	3	12	15	4	0	31
4	2	14	4	0	0	20	4	8	20	8	0	36
5	3	18	6	3	0	30	5	15	27	7	1	50
6	2	22	5	5	0	34	6	16	27	5	1	49
7	4	32	6	4	1	47	7	4	28	8	0	41
8	11	25	17	6	0	59	8	9	34	7	1	51
9	9	62	18	2	0	91	9	5	51	9	2	67
10	9	70	23	3	2	107	10	5	30	10	1	46
11	6	54	10	2	0	72	11	4	28	12	0	44
12	3	33	14	4	0	54	12	5	29	9	0	43
13	5	31	6	0	0	42	13	0	22	6	0	28
14	4	14	5	0	0	23	14	4	12	0	0	16
15	1	8	1	0	0	10	15	1	4	0	0	5
16	3	3	0	0	0	6	16	0	0	0	0	0
17	0	1	0	0	0	1	17	0	0	0	0	0
18	0	0	0	0	0	0	18	1	0	0	0	1
19	0	0	0	0	0	0	19	0	0	0	0	0
20	0	0	0	0	0	0	20	0	0	0	0	0
21	0	0	0	0	0	0	21	0	0	0	0	0
22	0	0	0	0	0	0	22	0	0	0	0	0
	62	391	116	30	3			94	343	94	8	1

Table A.3-6 Continuation

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Mp 21 Dauer Pegel							Mp 22 Dauer Pegel						
	1	2	3	4	5			1	2	3	4	5	
1	2	3	2	0	0	7	1	1	6	1	0	0	8
2	8	7	0	0	0	15	2	8	17	0	0	0	25
3	12	12	2	0	0	26	3	7	11	3	1	0	22
4	21	12	3	0	0	36	4	9	15	5	2	1	32
5	35	20	3	0	0	58	5	13	20	5	3	0	41
6	19	28	5	1	0	53	6	15	31	13	2	1	62
7	21	24	3	2	0	50	7	16	22	13	2	1	54
8	15	20	3	0	0	38	8	2	18	10	3	1	34
9	16	25	13	0	0	54	9	3	23	15	2	0	43
10	10	26	7	1	0	44	10	3	34	11	3	0	51
11	6	17	9	0	0	32	11	2	22	17	6	0	47
12	3	8	3	0	0	14	12	3	16	11	2	0	32
13	3	3	0	0	0	6	13	1	18	4	1	0	24
14	2	2	0	0	0	4	14	0	3	0	0	0	3
15	0	1	0	0	0	1	15	0	0	2	0	0	2
16	1	0	0	0	0	1	16	0	0	0	0	0	0
17	0	0	0	0	0	0	17	0	0	0	0	0	0
18	0	0	0	0	0	0	18	0	0	0	0	0	0
19	0	0	0	0	0	0	19	0	0	0	0	0	0
20	0	0	0	0	0	0	20	0	0	0	0	0	0
21	0	0	0	0	0	0	21	0	0	0	0	0	0
22	0	0	0	0	0	0	22	0	0	0	0	0	0
	174	208	53	4	0			83	256	110	27	4	

Mp 23 Dauer Pegel							Mp 24 Dauer Pegel						
	1	2	3	4	5			1	2	3	4	5	
1	8	8	1	0	1	18	1	1	8	0	1	0	10
2	4	7	2	0	0	13	2	6	17	2	0	0	25
3	4	2	4	0	0	10	3	9	22	1	2	0	34
4	2	6	4	1	2	15	4	10	40	3	1	1	55
5	4	4	3	2	4	17	5	14	28	9	3	1	55
6	7	8	5	0	2	22	6	15	44	10	4	0	73
7	3	10	6	0	2	21	7	9	39	11	4	1	64
8	1	9	1	0	0	11	8	10	30	10	4	2	56
9	2	4	3	2	0	11	9	4	34	16	5	1	60
10	1	4	1	3	0	9	10	7	24	6	3	3	43
11	0	4	2	0	0	6	11	4	17	2	2	0	25
12	0	2	0	0	0	2	12	0	9	0	0	0	9
13	0	0	1	0	1	2	13	1	1	0	1	0	3
14	0	0	0	0	0	0	14	1	2	0	0	0	3
15	0	1	1	0	0	2	15	0	0	0	0	0	0
16	0	0	0	0	0	0	16	0	0	0	0	0	0
17	0	1	0	0	0	1	17	0	0	0	0	0	0
18	0	0	0	0	0	0	18	0	0	0	0	0	0
19	0	1	0	0	0	1	19	0	0	0	0	0	0
20	0	0	0	0	0	0	20	0	0	0	0	0	0
21	0	0	0	0	0	0	21	0	0	0	0	0	0
22	0	0	0	0	0	0	22	0	0	0	0	0	0
	36	71	34	8	12			91	315	70	30	9	

Table A.3-6 Continuation

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Mp 25							Mp 26						
Dauer							Dauer						
Pegel							Pegel						
	1	2	3	4	5			1	2	3	4	5	
1	10	7	5	4	1	27	1	3	5	2	1	0	
2	4	9	4	2	1	20	2	6	2	2	1	1	
3	0	5	2	1	1	9	3	2	6	4	0	0	
4	1	1	0	0	0	2	4	5	10	8	0	0	
5	3	3	0	0	0	6	5	3	16	6	3	2	
6	0	2	3	3	0	8	6	5	12	5	3	0	
7	0	3	6	2	1	12	7	1	17	3	2	2	
8	0	2	5	0	0	7	8	5	6	3	1	1	
9	0	4	3	1	0	8	9	2	15	9	5	1	
10	0	5	4	0	0	9	10	4	15	6	3	0	
11	0	4	1	0	0	5	11	0	8	7	2	0	
12	0	0	0	1	0	1	12	0	6	5	2	0	
13	0	0	0	1	0	1	13	0	3	2	0	0	
14	0	0	0	0	0	0	14	0	2	1	0	0	
15	0	0	0	0	0	0	15	0	1	0	0	0	
16	0	0	0	0	0	0	16	0	0	0	0	0	
17	0	0	0	0	0	0	17	0	0	0	0	0	
18	0	0	0	0	0	0	18	0	0	0	0	0	
19	0	0	0	0	0	0	19	0	0	0	0	0	
20	0	0	0	0	0	0	20	0	0	0	0	0	
21	0	0	0	0	0	0	21	0	0	0	0	0	
22	0	0	0	0	0	0	22	0	0	0	0	0	
	18	45	33	15	4			37	124	63	23	7	

Mp 27							Mp 28						
Dauer							Dauer						
Pegel							Pegel						
	1	2	3	4	5			1	2	3	4	5	
1	4	2	2	0	0	8	1	2	5	4	0	0	
2	9	3	1	0	2	15	2	4	11	5	0	0	
3	12	9	1	0	0	22	3	3	8	2	0	0	
4	9	15	4	4	0	32	4	2	11	7	0	1	
5	6	16	3	0	1	26	5	7	8	8	1	1	
6	4	9	5	2	1	21	6	3	9	9	3	1	
7	4	7	11	2	0	24	7	3	15	19	2	1	
8	1	3	4	0	0	8	8	2	22	19	7	0	
9	3	4	7	2	0	16	9	6	30	35	1	0	
10	2	5	3	0	0	10	10	4	34	18	5	2	
11	0	2	0	0	0	2	11	2	14	23	8	0	
12	0	1	3	0	0	4	12	1	22	13	3	0	
13	0	2	1	1	0	4	13	1	11	3	0	0	
14	0	1	0	0	0	1	14	0	6	2	1	0	
15	0	0	0	0	0	0	15	0	3	1	0	0	
16	0	0	0	0	0	0	16	0	0	1	0	0	
17	0	0	0	0	0	0	17	0	0	0	0	0	
18	0	0	0	0	0	0	18	0	0	0	0	0	
19	0	0	0	0	0	0	19	0	0	0	0	0	
20	0	0	0	0	0	0	20	0	0	0	0	0	
21	0	0	0	0	0	0	21	0	0	0	0	0	
22	0	0	0	0	0	0	22	0	0	0	0	0	
	54	79	45	11	4			40	209	169	31	6	

Table A.3-6 Continuation

							Mp 30					
							Dauer					
							Pegel					
		1	2	3	4	5	1	2	3	4	5	
2	7	3	2	0	14	1	0	9	1	1	0	11
9	19	11	2	0	41	2	0	21	3	0	0	24
13	19	9	2	1	44	3	0	12	5	2	0	19
10	23	15	6	2	56	4	0	10	3	1	0	14
9	21	27	6	1	64	5	0	1	4	0	0	5
12	22	16	4	2	56	6	0	5	1	0	0	6
3	18	11	3	1	36	7	0	2	2	0	0	4
4	10	17	2	4	37	8	0	3	1	0	0	4
2	7	13	5	1	28	9	0	3	0	0	0	3
3	9	5	1	0	18	10	0	3	0	0	0	3
2	5	8	2	1	18	11	0	0	0	0	0	0
0	3	2	2	0	7	12	0	4	1	0	0	5
0	0	3	0	0	3	13	0	1	0	0	0	1
0	1	1	0	0	2	14	0	0	0	0	0	0
0	0	0	0	0	0	15	0	0	0	0	0	0
0	0	0	0	0	0	16	0	0	0	0	0	0
0	0	0	0	0	0	17	0	0	0	0	0	0
0	0	0	0	0	0	18	0	0	0	0	0	0
0	0	0	0	0	0	19	0	0	0	0	0	0
0	0	0	0	0	0	20	0	0	0	0	0	0
0	0	0	0	0	0	21	0	0	0	0	0	0
0	0	0	0	0	0	22	0	0	0	0	0	0
69	164	141	37	13			0	74	21	4	0	

							Mp 32					
							Dauer					
							Pegel					
		1	2	3	4	5	1	2	3	4	5	
2	5	8	5	1	21	1	0	6	3	0	1	10
6	6	7	3	8	30	2	0	1	2	2	0	5
3	6	3	3	16	31	3	0	2	0	2	1	5
5	8	4	5	19	41	4	0	1	5	1	0	7
6	7	7	7	19	46	5	0	1	4	3	1	9
0	8	5	7	9	29	6	0	3	5	1	0	9
1	2	3	1	6	13	7	0	4	3	0	0	7
1	1	2	1	2	7	8	0	2	0	0	0	2
1	2	3	1	0	7	9	0	2	1	0	0	3
1	1	0	0	0	2	10	0	1	0	0	0	1
0	0	1	0	0	1	11	0	0	0	0	0	0
0	0	0	0	0	0	12	0	0	0	0	0	0
0	0	0	1	0	1	13	0	0	0	0	0	0
0	0	1	0	0	1	14	0	0	0	0	0	0
0	0	0	0	0	0	15	0	0	0	0	0	0
0	0	0	0	0	0	16	0	0	0	0	0	0
0	0	0	0	0	0	17	0	0	0	0	0	0
0	0	0	0	0	0	18	0	0	0	0	0	0
0	0	0	0	0	0	19	0	0	0	0	0	0
0	0	0	0	0	0	20	0	0	0	0	0	0
0	0	0	0	0	0	21	0	0	0	0	0	0
0	0	0	0	0	0	22	0	0	0	0	0	0
26	46	44	34	80			0	23	23	9	3	

ORIGINAL PAGE IS  
OF POOR QUALITY

#### A.4 Appendix to Chapter 4: The Portion of the Investigation on Social /41 Sciences

##### A.4.0 Table of Contents

A.4.2.3	The Questionnaire of the Main Investigation in Munich
A.4.5	Table A.4-1: List of the Most Important Programs Employed
A.4.6.1.3	Table A.4-2: Frequency and Percentage of Reasons for not Granting Interviews in the Survey of those who Moved within a Locality and who Moved away
A.4.6.3.1	Table A.4-3a: Factor Distributions, Coefficients of Retesting and Selectivity of the Items for the Variables described in 4.6.3.1
A.4.6.3.2	Table A.4-3b: Coefficients of Retesting and Selectivity of the Items for the Variables described in 4.6.3.2
A.4.6.3.3	Table A.4-4: Values in the Scale of Different Occupational Positions with respect to Social Prestige
	Table A.4-5: Distribution of Net Income per Household as well as the Reliability of this Variable in Retesting
	Table A.4-6: Average Values, Coefficients of Retesting and Selectivity of the Items in the Index of Living Standard
A.4.6.4.1	Table A.4-7: Average Values and Scattering of Different Variables
	Table A.4-8: Intercorrelations of 45 Variables
	Table A.4-9: Degree of Certainty for Linear, Quadratic and Cubic Relations for the 23 Moderator Variables described in 4.6.4.2 on a Secondary Data Level
	Table A.4-10: Degree of Certainty for Linear, Quadratic and Cubic Relations of 10 Reaction Variables of the Secondary Data Set Among One Another as well as for the Relationships of These to the Fly-Over Level $L_A$ , the Fly-Over Duration $D_{10}$ and the Directional Frequency $H_R$
	Table A.4-11: Degree of Certainty for Linear, Quadratic and Cubic Relations of 4 Stimulus Variables as well as of Moderator and Reaction Variables on Tertiary Data Level
A.4.6.5.1	Table A.4-12: A Comparison of Pairs of the Co-variant Matrices of Various Variable Sets in the 4 Sets



A.4.6.5.2.1 Table A.4-13: Average Values and Scattering of Several Reaction Variables per Cluster

A.4.6.5.2.2 Table A.4-14: Standard Correlation between Three Stimulus Variables, on the One Hand, and Four Tertiary Reaction Variables, on the Other Hand, for the Social Random Sample, for Two Chance Random Samples Formed from This as well as for the Interdisciplinary Random Sample

Table A.4-15: Standard Correlation between Moderator and Reaction Variables on the Tertiary Data Level for the Social Random Sample, for Two Chance Random Samples Formed from This as well as for the Interdisciplinary Random Sample

A.4.6.5.2.2 Table A.4-16: Standard Correlation between Three Stimulus Variables and Five Moderator Variables, on the One Hand, and Four Reaction Variables on the Other Hand, for the Social Random Sample, for Two Chance Random Samples Formed from this as well as for the Interdisciplinary Random Sample

/42

Table A.4-17: Standard Correlation between the Measure of Aircraft Noise Fb1 and Five Moderator Variables, on the One Hand, and Four Reaction Variables, on the Other Hand, for the Social Random Sample, for Two Chance Random Samples Formed from this as well as for the Interdisciplinary Random Sample

In the tables of the appendix to Chapter 4, usually abbreviations were employed instead of the variable names; the corresponding long forms can be found in the list of variables at the conclusion of Chapter 4 in the main report or in Table A.4-7 in the present appendix.

Furthermore, the leading zero and decimal point have been left off in the tables in the case of correlations and distributions.

#### A.4.2.3 The Questionnaire of the Main Study in Munich

The questionnaire was employed in two different versions. In version A the questions on traffic noise preceded the corresponding questions on aircraft noise; in version F the order was reversed. Each version was employed for approx. half of the subjects (a questionnaire of version A is reproduced).

The scales (I-V), lists (A-C, Ä, Ö, Ü, AX, BX) as well as the figures 1 and 2 mentioned in the questionnaire which are presented to the person being interviewed are not reproduced here.

The makeup and arrangement of the following copy differs from that of the original questionnaire.

FLF

PAGE 1

INTERVIEW NO. ( ) ( )

(Aircraft Noise Questionnaire)

ATTENTION INTERVIEWER, PLEASE NOTE BEFORE EACH INTERVIEW:

- ENTER THE INTERVIEW NO. IN THE UPPER RIGHT HAND CORNER ON EACH PAGE!
- ALL TEXTS IN BOLD TYPE ARE DIRECTIONS ONLY FOR YOU. THE QUESTIONS FOR THE PERSON BEING INTERVIEWED ARE WRITTEN IN NORMAL TYPE. FOLLOW THE TEXT AND SEQUENCE AS CLOSELY AS POSSIBLE.
- MAKE CERTAIN THAT ONLY ONE LIST IS PRESENTED AT A TIME. THE ANSWER SCALE MUST BE EXPLAINED ESPECIALLY CLEARLY. THE PERSON BEING INTERVIEWED MUST ALWAYS REMAIN CONSCIOUS OF THE FIVE ANSWER LEVELS, ALSO WHEN ANSWERING LONGER LISTS.
- ALL ANSWERS ARE ENTERED AS NUMBERS IN THE BOXES AT THE RIGHT! THESE NUMBERS ARE IN PARENTHESIS IN THE TEXT OF THE QUESTION OR ON THE ANSWER SCALES! PLEASE USE A PENCIL.
- IF NO SPECIFIC ANSWER IS MADE IN SPITE OF REPEATED EXPLANATION, WRITE YOUR ESTIMATION OF THE ANSWER BESIDE THE BOX.
- IN EVERY CASE SHOW YOUR IDENTIFICATION CARD TO THE PERSON TO BE INTERVIEWED WHEN APPROACHING HIM! REFER TO THE INFORMATION AT THE END OF THE INTERVIEW WHEN QUESTIONS ARE POSED ABOUT THE AIM OF THE STUDY. AVOID THE WORD AIRCRAFT NOISE! ALWAYS KEEP A COPY OF THE LETTER ON HAND.

0 Hello, my name is ... I am from the German Research Association. You received a letter from us, informing you about our scientific study. This deals with the living conditions of residents in large cities, the dwellings, health, place of work and other problems of the population. Would you please answer some questions on this subject!

IF YOU MEET WITH RESISTANCE, USE THE ARGUMENT IN THE LETTER. ALWAYS AGREE TO ANOTHER DATE, IF THIS IS SUCCESSFUL. AVOID A FINAL REFUSAL. IF YOU CANNOT CONDUCT THE INTERVIEW, PLEASE ENTER THE DATE OF THE LAST ATTEMPT AND THE REASON FOR REJECTION ON THE LEAD CARD.

- 1 ENTER WHETHER THE SUBJECT IS MALE (0) OR FEMALE (1) ( )
- 2 Could you please tell me, how long you have already lived in ... (LOCALITY)? IN WHOLE YEARS. ( )
- 3 And how many years have you already lived in this house? YEARS ( ) ( )

- 4 Are you, your husband or another member of the family a roomer (1), renter (2), owner of the apartment (3), or owner of the house (4)? ( )
- 5 PRESENT LIST A! How many rooms of each of these types are included in your household?
- |                              |     |
|------------------------------|-----|
| bath and toilet              | ( ) |
| bedroom, kitchen, livingroom | ( ) |
| hall, storageroom, garage    | ( ) |
- 6 Do you own a weekend home? YES = 1/NO = 0 ( )
- 6.1 Or have you rented or leased one? YES = 1/NO = 0 ( )
- 7 How many years did you go to school (elementary school, junior high school, high school, or adult school, academies and trade schools, university; without occupational training and other auxiliary schools)? YEARS ( ) ( )

FLF PAGE 2 INTERVIEW NO. ( ) ( ) /45

IF IT IS DIFFICULT TO GET AN ANSWER, ASK FOR AND NOTE WHEN ELEMENTARY SCHOOL, JUNIOR HIGH SCHOOL, HIGH SCHOOL WAS COMPLETED.

- 8 Are you working presently full-time (1), part-time (2), going to school (3), unemployed (4), not working (5), receiving a pension (6), or did you never work (7)? ( )
- 9 Who is the main wage earner in your household (= HAS THE LARGEST INCOME OR MAKES THE GREATEST CONTRIBUTION TO THE MUTUAL HOUSEHOLD BUDGET)? You yourself (1), your marriage partner (2), parents (3), children (4), others (5)? ( )

WHEN THE PERSON BEING INTERVIEWED IS WORKING (QUESTION 8(1) AND (2)):  
- OTHERWISE QUESTION 12-:

- +10 PRESENT LIST B! Which position in this list best describes your occupation? (GIVE ASSISTANCE ACCORDING TO INSTRUCTIONS) ( ) ( )
- +11 How many hours per week are you away from home because of your job? (GIVE ASSISTANCE ACCORDING TO INSTRUCTIONS) ( ) ( )

WHEN THE PERSON BEING INTERVIEWED DOES NOT WORK (QUESTION 8(3) TO (6)):

- +12 PRESENT LIST B! Which position in this list best describes your previous occupation? (GIVE ASSISTANCE ACCORDING TO INSTRUCTIONS) ( ) ( )

WHEN THE PERSON BEING INTERVIEWED IS NOT THE MAIN WAGE EARNER (QUESTION 9(2) TO (5)):

++13 Does the main wage earner presently have a full-time job (1), a part-time job (2), attending school (3), unemployed (4), not working (5), receiving a pension (6) or did he never work (7)? ( )

WHEN THE MAIN WAGE EARNER IS WORKING (QUESTION 13(1) AND (2)):

+14 PRESENT LIST B! Which position on this list best describes the occupation of your ... (MAIN WAGE EARNER) (GIVE ASSISTANCE ACCORDING TO INSTRUCTIONS) ( ) ( )

WHEN THE MAIN WAGE EARNER IS NOT WORKING (QUESTION 13(3) TO (6)):

+15 PRESENT LIST B! Which position did your.... (MAIN WAGE EARNER) have in his earlier occupation? ( ) ( )

WHEN THE PERSON BEING INTERVIEWED IS NOT THE MAIN WAGE EARNER (QUESTION 9(2) TO (5)):

+16 Could you please tell me now how long your ... (MAIN WAGE EARNER) attended school (elementary school, junior high school, high school or adult school, trade school, university, academy)? YEARS ( ) ( )  
IF IT IS DIFFICULT TO GET AN ANSWER ASK FOR AND NOTE THE CONCLUSION OF ELEMENTARY SCHOOL, JUNIOR HIGH SCHOOL, OR SIMILAR SCHOOLS.

FLF PAGE 3 INTERVIEW NO. ( ) ( ) /46

AGAIN TO ALL:

17 PRESENT LIST C AND SCALE I: READ THE SENTENCES AND ENTER THE ANSWER NUMBER (1 TO 5) AT THE RIGHT!  
During this interview I will show you the answers made by other persons interviewed on various points several times. I will then ask you to what extent these statements also apply to you.  
You have five answer levels for each sentence: applies greatly (5), mostly applies (4), on the average it applies (3), hardly applies (2), and does not apply (1). Please give me an answer for every sentence. You can decide completely spontaneously.

17.1 Constant advances in technology lead to destruction of the human race. ( )

17.2 Industry and technology determine life in the city to such an extent, that one can no longer feel comfortable ( )

17.3 It would be awful to have to live in a world without machines and technology ( )

- 17.4 Machines are a blessing, for without them people would have to work much harder. ( )
- 17.5 The ever increasing role of technology in the modern world is harmful for the human race. ( )
- 17.6 Without modern technology people could lead a much happier and more content life. ( )
- 17.7 Progress and civilization in the city is much more important to me than a life in the country communing with nature. ( )
- 17.8 It is unpleasant to imagine that I would have to live without the comforts of civilization. ( )

18 PRESENT LIST D AND SCALE II! READ ALOUD, IF NECESSARY! REPEAT THE EXPLANATION FOR THE ANSWER SCALE WHEN NECESSARY! ENTER THE ANSWERS AS NUMBERS BETWEEN 1 AND 5 AT THE RIGHT.

I would now like to ask you how content you are with a number of things. There are a number of positions in this list; the small scale shows you five possibilities for an answer:

very content (5), fairly content (4), content on the average (3), not very content (2), not content (1), Please simply give me the answer to each point, corresponding to the degree of your contentment.

ATTENTION INTERVIEWER: WHEN THE PERSON BEING INTERVIEWED IS NOT WORKING, ASK ABOUT THE WAY THE MAIN WAGE EARNER GETS TO WORK. WHEN THE MAIN WAGE EARNER IS ALSO NOT WORKING, SET AN X IN QUESTION 18.12.

- 18.1 House ( )
- 18.2 Apartment ( )
- 18.3 Apartment costs ( )
- 18.4 Area of residence ( )
- 18.5 Neighbors ( )
- 18.6 Conditions in the area affecting health ( )
- 18.7 Quietness in the area ( )
- 18.8 Possibilities for recreation ( )
- 18.9 The city in general ( )
- 18.10 Public transportation in the area ( )
- 18.11 Shopping facilities in the area ( )
- 18.12 The way to work ( )

FLF PAGE 4 INTERVIEW NO. ( ) ( ) /47

19 PRESENT LIST E AND SCALE I! Here are again several answers from another survey. Please tell me to what extent each sentence applies to you. As previously,

there are again five possible answers for each, from "applies greatly" to "does not apply".

- 19.1 It is my opinion that we have to pay too many taxes in this country. ( )
- 19.2 The continuous increases in membership fees of health insurance and other insurance cannot be justified. ( )
- 19.3 I feel that we can be very satisfied with the present government. ( )
- 19.4 Most things are much too expensive, measured on the average income. ( )
- 19.5 I feel that most people are good and carry out their duties as well as they can. ( )
- 19.6 The government really does too little for its citizens. ( )
- 19.7 I feel that the people who are in our present government try to do their best. ( )
20. Are there here any living conditions endangering health and life? Which? ( )
- 20.1 INTERVIEWER: NOISE MENTIONED, YES = 1, NO = 0 ( )
- 20.2 THE NOISE MENTIONED WAS AIRCRAFT NOISE, YES = 1, NO = 0 ( )
- 21 PRESENT SCALE II! Are you very content (5), with your state of health, fairly content (4), content on the average (3), not very content (2), not content (1)? ( )
- 22 PRESENT LIST F AND SCALE I! Here are again several answers from another survey. Please tell me to what degree each sentence applies to you. As we did previously, there are again five possible answers for you, from "applies greatly" to "does not apply".
- 22.1 Sometimes I suspect that I have an undiscovered disease. ( )
- 22.2 I think that I am more susceptible and sensitive to diseases than most of my acquaintances. ( )
- 22.3 I have usually been healthy in the past years. ( )
- 22.4 My health is not the best. ( )
- 22.5 Physically, I am just as healthy as most of my acquaintances ( )
- 23 Another question: When do you get out of bed on work days, I mean on the average? TIME ( ) ( ) ( ) ( )

24 And when do you go to bed on the average  
during the week? TIME ( ) ( ) ( ) ( )

25 Could you please tell me now how many cups of  
coffee you drink a day. I mean on the average?  
NUMBER ( ) ( )

26 And how many cups of tea do you drink? NUMBER ( ) ( )

FLF PAGE 5 INTERVIEW NO. ( ) ( ) /48

27 And some questions on smoking.

27.1 How many cigarettes do you smoke on a daily average?  
NUMBER ( ) ( )

27.2 Do you smoke cigars or cigarillos?  
IF YES: How many do you smoke on a daily average? NUMBER ( ) ( )  
IF NO: PUT IN 0

27.3 Do you smoke a pipe?  
IF YES: How many per day? NUMBER ( ) ( )  
IF NO: PUT IN 0

28 Now several questions about alcohol consumption.  
ATTENTION INTERVIEWER: GIVE ASSISTANCE ACCORDING TO  
INSTRUCTIONS!

28.1 How many glasses of beer do you drink on the average  
during a week? NUMBER ( ) ( )

28.2 And how many glasses of wine do you drink in the  
average in a week? NUMBER ( ) ( )

28.3 And how many cocktails do you drink? NUMBER ( ) ( )

28.4 How many glasses of straight liquor do you drink on  
the average in a week? NUMBER ( ) ( )

29 PRESENT LIST G AND SCALE I! Now we have several  
more questions, concerning your health. Please tell  
me again to what extent these apply to you.

29.1 Sometimes I ache all over. ( )

29.2 Sometimes I have pains in the area of the heart. ( )

29.3 I often perspire, even without strenuous activity or work. ( )

29.4 Sometimes I have heart palpitations. ( )

29.5 I get dizzy on occasion. ( )



- 29.6 I am rather nervous, twitchy or unconcentrated. ( )
- 29.7 I suffer from severe headaches. ( )
- 29.8 Sometimes I am short of breath, even when I have done no strenuous work. ( )
- 29.9 I suffer from sleeplessness. ( )
- 29.10 I shake or have chills on occasion ( )
- 29.11 I often feel miserable or very sick. ( )
- 30 Have you taken any concrete steps recently (e.g. given notice in this apartment, placed a classified ad etc.), in order to leave this apartment (or area)?  
INTERVIEWER: PLACE THE QUESTIONS ONE AFTER ANOTHER!
- 30.1 APARTMENT, YES =1, NO = 0 ( )
- 30.2 AREA, YES = 1, NO = 0 ( )
- 31 PRESENT LIST H! How sympathetic are you to the idea of moving? Would you be for it? Very much for it (5), pretty much for it (4), undecided (3), pretty much against it (2), very much against it (1). And what about the city, the neighborhood?  
Please give one answer for each!

FLF PAGE 6 INTERVIEW NO. ( ) ( ) /49

- 31.1 Apartment ( )
- 31.2 Neighborhood ( )
- 31.3 City ( )
- 32 PRESENT LIST J AND SCALE I! Here are again several answers from another survey. Please tell me to what extent you agree with these.
- 32.1 If I had the opportunity, I would gladly spend some time in a foreign country. ( )
- 32.2 A position in a secure occupation is always better, even when wages are lower. ( )
- 32.3 I would not mind moving every couple of years. ( )
- 32.4 I think the saying "stay in your country and work at an honest job" expresses a very sensible standpoint. ( )

- 32.5 I think that there are still many opportunities open to me. ( )
- 32.6 I expect to make progress and to improve myself. ( )
- 32.7 It would be too great a risk to build a new life in a foreign country. ( )
- 32.8 There will probably be no great changes in my life. ( )
- 33 Are there any living conditions which disturb you in the area, and which should be changed? Which?
- 33.1 INTERVIEWER: NOISE WAS MENTIONED, YES = 1, NO = 0 ( )
- 33.2 THE NOISE MENTIONED WAS AIRCRAFT NOISE, YES = 1, NO = 0 ( )
- 34 PRESENT LIST K! Here is a list of several things, about which people complain. Please tell me which point applies most to you. And which is second? And which is third? Please arrange these in the order of importance! WHERE NECESSARY ONLY ASK FOR PLACE NUMBER 1, 5, 6 OR 1, 2, 6 (THREE PLACES).
- ENTER THE EVALUATION:
- 34.1 Not enough parks and gardens ( )
- 34.2 Unfriendly neighbors ( )
- 34.3 Unpleasant smells ( )
- 34.4 Too much noise ( )
- 34.5 Insufficient public transportation ( )
- 34.6 Shopping facilities are lacking ( )
- 35 You have placed noise at position ... which type of noise did you think of?
- INTERVIEWER: AIRCRAFT NOISE MENTIONED, YES = 1, NO = 0 ( )

FLF PAGE 7 INTERVIEW NO. ( ) ( ) /50

- 36 PRESENT LIST L AND SCALE 1! Here are again several answers from another survey. Tell me to what extent these sentences apply to you or not.
- 36.1 I become nervous when I hear a dog barking constantly. ( )
- 36.2 I can only fall asleep when it is really quiet. ( )
- 36.3 Slamming doors disturb me. ( )
- 36.4 It does not bother me even when cars honk constantly in front of our house. ( )
- 36.5 I cannot stand the sound of screeching brakes. ( )

36.6 I don't care how loud my neighbor plays his radio. ( )

37 PRESENT SCALE III! I would now like you to estimate how loud your daily place of work is on the average. If a classroom during a test, an office without typing noise, or a reading room in a library can be described as not loud, is your place of work in comparison not loud (1), not very loud (2), moderately loud (3), rather loud (4), very loud (5)? ( )

38 PRESENT LIST M AND SCALE I! Now there are several sentences on a completely different subject. Please tell me again whether you agree or not.

38.1 Criminals are treated too harshly; they should be corrected instead of punished. ( )

38.2 Freedom of art must be insured, but reaches its limit when moral values are damaged. ( )

38.3 There is hardly anything more pitiful than people who do not love and honor their parents. ( )

38.4 Sex should be discussed more than it has been in schools. ( )

38.5 The present generation should listen more to their parents and grandparents. ( )

38.6 Boys and girls have much too much sexual freedom today. ( )

38.7 The laws should be changed, so that it is easier to get a divorce. ( )

39 PRESENT LIST N! People are exposed to a variety of noises today. This is a list of different sources of noise, which also may be heard within a home. What applies most to your area? And second, third? Please form an order of importance!  
WHEN NECESSARY, ONLY ASK FOR THE POSITIONS 1, 2, 5,  
OR A SIMILAR COMBINATION!

ENTER THE ORDER NUMBERS

39.1 Construction noise ( )

39.2 Traffic noise ( )

39.3 Radio noise ( )

39.4 Aircraft noise ( )

39.5 Factory noise ( )

FLF PAGE 8 INTERVIEW NO. ( ) ( ) /51

40 ANOTHER LIST N. Imagine that you had a choice of five apartments: in one there is much construction noise, in the second there is much traffic noise,

in the third much radio noise, in the fourth much aircraft noise, in the fifth much noise from a factory. In which would you least like to live, in which would you most like to live? Please again arrange these in the correct order.

ENTER THE ORDER NUMBERS

- 40.1 Construction noise ( )
- 40.2 Traffic noise ( )
- 40.3 Radio noise ( )
- 40.4 Aircraft noise ( )
- 40.5 Factory noise ( )

41 PRESENT LIST O AND SCALE I! Here are again several sentences from another survey.

- 41.1 One is not conscious of constant traffic noise. ( )
- 41.2 No one can become accustomed to noise. ( )
- 41.3 Even when someone lives in a street with much traffic for many years, the constant noise is still very disturbing. ( )
- 41.4 I think that you can become accustomed to most sounds after a period of time. ( )
- 41.5 Even when someone lives close to a railroad for many years, he would still be disturbed when a train goes by. ( )
- 41.6 One becomes accustomed to anything after a period of time, even to the loudest noise. ( )
- 41.7 After having lived near an airport for sometime, you can sleep just as well as if the area were quiet. ( )

42 PRESENT LIST P AND AIRCRAFT PICTURE (FIGURE 1) AND SCALE IV. Here you see an aircraft taking off. How well does this situation fit the various characteristics and descriptions of this list? Please tell me for each characteristic in the list, whether it fits well (5), fits rather well (4), fits moderately (3), hardly fits (2), does not fit (1).

- 42.1 Unpleasant ( )
- 42.2 Interesting ( )
- 42.3 Annoying ( )
- 42.4 Marvelous ( )
- 42.5 Exciting ( )
- 42.6 Bearable ( )
- 42.7 Bad ( )
- 42.8 Masterful ( )
- 42.9 Harmless ( )

- 42.10 Dangerous ( )
- 42.11 Bothersome ( )
- 42.12 Boring ( )
- 42.13 Uncertain ( )
- 42.14 Disturbing ( )
- 42.15 Threatening ( )
- 42.16 Noticeable ( )
- 42.17 Frightening ( )
- 42.18 Beautiful ( )

FLF PAGE 9 INTERVIEW NO. ( ) ( ) /52

PRESENT LIST Q FOR 43 AND 44!

- 43 Do you hear traffic noise at home:  
night and day (5), the whole day (4), several hours (3),  
only occasionally (2), hardly ever (1)? ( )
- 44 And aircraft noise? ( )

PRESENT LIST R FOR 45 AND 46!

- 45 Now I would like to ask you about the loudness of  
sounds. It is not important in this case, how  
disturbing or annoying the sounds are, but rather how  
loud they are.  
Therefore, when you hear traffic noise at home is it:  
louder than other sounds (5), rather loud (4),  
moderately loud (3), rather muffled (2), less promi-  
nent than other sounds (1)? I mean on the average. ( )
- 46 And how loud do you find aircraft noise? ( )

PRESENT LIST S AND SCALE III FOR 47 AND 48!  
ENTER ANSWER NUMBERS BELOW NEXT TO 47 AND 48.

Now we have several questions on the various consequences  
of automobile and aircraft traffic.

- 47 Please tell me first to what extent these consequences  
of automobile traffic apply to you: not (1),  
scarcely (2), moderately (3), quite (4), greatly (5).
  - X.1 exterior and interior walls shake ( )
  - X.2 windowpanes and dishes rattle ( )
  - X.3 the house is contaminated ( )
  - X.4 disruptions in radio programs ( )
  - X.5 disruptions in the television image ( )
  - Y.1 we have to raise our voices ( )
  - Y.2 it is an obstacle to relaxation and evening quiet ( )
  - Y.3 it is startling ( )
  - Y.4 we get headaches ( )
  - Y.5 prevents going to sleep ( )
  - Y.6 the radio or television volume must be turned up ( )

- Y.7 prevents reading or thinking ( )
- Y.8 wakes us up at night ( )
- Y.9 leads to earaches ( )

48 Now we have the same questions for aircraft traffic.  
I would like to request that you tell me to what  
extent these consequences apply to you here:

- X.1 exterior and interior walls shake ( )
- X.2 windowpanes and dishes rattle ( )
- X.3 the house is contaminated ( )
- X.4 disruptions in radio programs ( )
- X.5 disruptions in the television image ( )
- Y.1 we have to raise our voices ( )
- Y.2 it is an obstacle to relaxation and evening quiet ( )
- Y.3 it is startling ( )
- Y.4 we get headaches ( )
- Y.5 prevents going to sleep ( )
- Y.6 the radio or television volume must be turned up ( )
- Y.7 prevents reading or thinking ( )
- Y.8 wakes us up at night ( )
- Y.9 leads to earaches ( )

FLF PAGE 10 INTERVIEW NO. ( ) ( ) /53

PRESENT LIST T FOR 49 AND 50!

- 49 Do you believe that the public disturbance due to  
traffic noise could be reduced with suitable measures?  
Would you consider it possible to completely remove  
this disturbance, that is to reduce it by 100% or  
by 75, 50, 25%?  
Or can the disturbance caused by traffic noise not  
be reduced at all (i.e. 0%).  
What reduction do you consider possible in percentages? ( ) ( )
- 50 And by what percent do you think public disruption  
due to aircraft noise can be reduced? ( ) ( )
- 51 PRESENT LIST U AND SCALE I! Here is again a list  
of answers from another survey. Please tell me  
again to what extent these sentences apply or not!
- 51.1 The first time you experience an aircraft flying  
overhead, you are somewhat frightened. ( )
- 51.2 I feel that planes are somehow frightening. ( )
- 51.3 I have never been afraid because of an aircraft. ( )
- 51.4 I could never feel comfortable and assured in an airplane. ( )
- 51.5 Whenever I hear an airplane, I think of a horrible  
accident. ( )

51.6 I cannot understand why some people are afraid of airplanes. ( )

51.7 During the war I was often afraid of airplanes. ( )

52 PRESENT SCALE V! Do you feel that aircraft manufacturers do everything possible to reduce the public annoyance due to aircraft noise? And the pilots? The airport administrators? The authorities? You again have five possibilities for an answer: not at all (1), probably not (2), perhaps (3), probably (4), certainly (5).

52.1 aircraft manufacturers ( )

52.2 pilots ( )

52.3 airport administration ( )

52.4 authorities ( )

FLF PAGE 11 INTERVIEW NO. ( ) ( ) /54

53 PRESENT LIST V! Have you ever carried out any one of these measures against aircraft noise and its consequences?  
YES = 1, NO = 0 ENTER AT THE RIGHT

53.1 Installed double-pane windows ( )

53.2 Soundproofing on doors and walls ( )

53.3 Fans for ventilation ( )

53.4 Use earplugs ( )

53.5 Take tablets ( )

53.6 Write a letter of complaint ( )

53.7 Place a call to the authorities ( )

53.8 Lodge a complaint in person ( )

53.9 Talk with neighbors about the situation ( )

53.10 Participate in a protest ( )

53.11 Become a member of an anti-aircraft noise association ( )

54 Have you ever undertaken any other measures against aircraft noise and its consequences?  
YES = 1, NO = 0 ( )  
IF YES: which?

+55 IF THERE WAS ANY POSITIVE ANSWER IN 53:  
Do you think you achieved a noticeable reduction by means of this measure (these measures)?  
YES = 1, NO = 0 ( )

56 PRESENT LIST W AND SCALE I! Now again a list of opinions. Please tell me whether you agree with these views or not!

56.1 Loud aircraft noise is detrimental for the cardiovascular system ( )

- 56.2 Aircraft noise is perhaps annoying, but not harmful. ( )
- 56.3 Aircraft noise reduces concentration. ( )
- 56.4 It is nonsense to believe that aircraft noise is detrimental to health. ( )
- 56.5 Aircraft noise does not permanently damage health. ( )
- 56.6 Constant aircraft noise causes damage to the ear and hearing loss. ( )
- 57 Now a completely different question:  
Have you ever been to an airport?  
YES = 1, NO = 0 ( )
- 58 Have you ever flown?  
YES = 1, NO = 0 ( )
- 59 PRESENT SCALE V! Could you please tell me now how great the probability is that you will fly this year? Please answer again with one of these five possibilities: not at all (1), probably not (2), perhaps (3), rather probable (4), certainly (5). ( )

FLF PAGE 12 INTERVIEW NO. ( ) ( ) /55

- 60 PRESENT LIST X AND SCALE I! Here you see again several answers from other surveys. To what extent do you agree with these sentences?
- 60.1 All the money spent for air traffic could be better applied to something else. ( )
- 60.2 Airplanes are transport means of the future. ( )
- 60.3 Airplanes are only important and good for the rich. ( )
- 60.4 Air transport is superfluous: railroads, cars and ships are sufficient. ( )
- 60.5 It would make sense for the economy to expand air traffic. ( )
- 60.6 The work and money put into air traffic is greater than its usefulness. ( )
- 61 PRESENT LIST Y! Have you heard or read anything about aircraft noise and its effects within the last month? Which point of this list applies?
- 61.1 read in a newspaper or magazine ( )
- 61.2 heard on the radio ( )



- 61.3 saw on the television ( )
- 61.4 learned from acquaintances or neighbors ( )
- 61.5 heard a lecture ( )
- 61.6 ... ( )

62 PRESENT LIST Z AND SCALE I! Now I would like to show you the answers of other surveys once again. Please decide whether these sentences correspond to your attitude or not!

- 62.1 I have often been angry about the noise of airplanes. ( )
- 62.2 I have often thought of complaining about aircraft noise. ( )
- 62.3 I have become so accustomed to the airplanes, that I hardly hear them anymore. ( )
- 62.4 I would not exactly die because of aircraft noise, but it is very nerve-wracking. ( )
- 62.5 A loud saw disturbs me more than aircraft noise. ( )
- 62.6 Even loud airplanes have never bothered me. ( )
- 62.7 The noise of airplanes can ruin my evening. ( )
- 62.8 I think its very interesting to hear the planes. ( )
- 62.9 The aircraft noise is so awful that I would gladly move away. ( )
- 62.10 I think that many people get more upset about aircraft noise than necessary. ( )
- 63 When were you last greatly annoyed by aircraft noise: today (1), yesterday (2), within the past week (3), last month (4), earlier (5), never (6)? ( )
- 64 Does the noise of jet aircraft disturb you more than the noise of propeller airplanes (3), do the two disturb you to the same degree (2), does the noise of propeller machines disturb you more than the noise of jet aircraft (1)? ( )

FLF

PAGE 13

INTERVIEW NO. ( ) ( ) /56

- 65 PRESENT LIST A! Here is a list of a number of things, which people get annoyed about. Please imagine that you would experience this. In which situation would you be most annoyed? And which is in second place? Please arrange these in the correct order!

- 65.1 Family argument ( )
- 65.2 Poor service in a store ( )
- 65.3 Aircraft noise ( )
- 65.4 Difficulties at work ( )
- 65.5 Poor work done by craftsmen ( )

66 All in all would you still find aircraft noise bearable?  
YES = 1, NO = 0 ( )

67 And traffic noise? YES = 1, NO = 0 ( )

68 PRESENT SCALE VI! How often do you ride in a car, I mean also in addition to the driver (please give an answer using the following answer possibilities): never (1), seldom (2), occasionally (3), often (4), very often (5). ( )

69 PRESENT SCALE V! How large is the probability that you will some day move away from ... (locality)? Not at all (1), probably not (2), perhaps (3), rather probable (4), certain (5). ( )

70 Could you tell me how many times you have moved house in your life? NUMBER ( )

WHEN THE PERSON BEING INTERVIEWED HAS MOVED AT LEAST ONCE, QUESTIONS 71, 72, 73, OTHERWISE GO TO QUESTION 74.

+71 What was the reason (the reasons) for your last move?  
INTERVIEWER: AIRCRAFT NOISE WAS MENTIONED YES = 1, NO = 0 ( )

+72 PRESENT LIST O! Here you see several reasons, which others who were questioned named as a reason for their move. Would you please tell me now which of the reasons also applies to your last move.  
APPLIES = 1, DOES NOT APPLY = 0  
INTERVIEWER: PLEASE ENTER THE ANSWERS BELOW!

- 72.1 The former apartment was too small. ( )
- 72.2 Occupational reasons (e.g. transfer of the main wage earner) ( )
- 72.3 Construction of a home. ( )
- 72.4 The former apartment was too expensive. ( )
- 72.5 Move because of marriage. ( )
- 72.6 There was too much aircraft noise in the old neighborhood. ( )
- 72.7 The former apartment was not comfortable enough. ( )
- 72.8 There was too much traffic in the old neighborhood. ( )
- 72.9 The former apartment was not in a pleasant neighborhood. ( )
- 72.10 .... ( )

FLF PAGE 14 INTERVIEW NO. ( ) ( ) /57

+73 Could you please tell me now which two reasons played



magazine	( ) ( )	ponder	( ) ( )	station	( ) ( )
celluloid	( ) ( )	stock market			
		report	( ) ( )	projector	( ) ( )

FLF PAGE 15 INTERVIEW NO. ( ) ( ) /58

deliberate	( ) ( )	flood light	( ) ( )	fairness	( ) ( )
silhouettes	( ) ( )	visa	( ) ( )	cinerama	( ) ( )
festival	( ) ( )	team	( ) ( )	acquiesce	( ) ( )
fit	( ) ( )	argument	( ) ( )	solo attempt	( ) ( )
starlet	( ) ( )	ecstasy	( ) ( )	double	( ) ( )
feuilleton	( ) ( )	conversation	( ) ( )	doping	( ) ( )
pact	( ) ( )	mime	( ) ( )	coproduction	( ) ( )
meditation	( ) ( )	cutter	( ) ( )	gazette	( ) ( )
frenetic	( ) ( )	intrigue	( ) ( )	controversy	( ) ( )
conspire	( ) ( )	columnist	( ) ( )	auditorium	( ) ( )
masthead	( ) ( )	neorealism	( ) ( )	sophisticated	( ) ( )

ATTENTION INTERVIEWER! GO THROUGH THE ROWS OF WORDS FROM THE LEFT TO THE RIGHT.

THEREFORE 1. LEOTARDS, 2. PONDER, 3. PRESS, 4. ADVERTISE...

Normally at the conclusion of this interview I need some statistical data:

78 Could you please tell me your age in years? YEARS ( ) ( )

79 Are you single (1), married (2), widowed (3), divorced (4)? ( )

80 And which religious confession do you belong to? (catholic (1), protestant (2), without confession (3) other (4)) ( )

81 How many persons belong to the household in which you live? (CHARACTERISTIC: MUTUAL KITCHEN) NUMBER ( ) ( )

82 How many of these are 15 years old or younger? NUMBER ( )

83 How many children do you have? NUMBER ( )

WHEN AT LEAST ONE CHILD:

+84 And how old are these children? K1 = YEAR ( ) ( ), K2 = YEARS ( ) ( ), K3 = YEARS ( ) ( ), K4 = YEARS ( ) ( )

+85 How many of these children are still living? NUMBER ( )

+86 WHEN THERE ARE STILL CHILDREN OF 15 YEARS OR YOUNGER: Is there any help available for supervising the children (e.g. maid or other similar personnel)? YES = 1, NO = 0 ( )



STUDY, CORRESPONDING TO THE GUIDELINES ON THE PAGE AFTER THE NEXT.  
ENTER THE RESULT THERE!

ATTENTION, TO BE FILLED OUT BY THE INTERVIEWER!

92 THE INTERVIEW WAS NOT (1), HARDLY (2), MODERATELY (3),  
QUITE (4), VERY (5) DISRUPTED BY:

92.1	CONSTRUCTION NOISE	( )
92.2	TRAFFIC NOISE	( )
92.3	RADIO NOISE	( )
92.4	AIRCRAFT NOISE	( )
92.5	FACTORY NOISE	( )

ON AN AVERAGE DURING THE INTERVIEW.

FLF PAGE 17 INTERVIEW NO. ( ) ( ) /60

93 ATTENTION INTERVIEWER, PLEASE MAKE A JUDGMENT ON  
WHETHER THE RESIDENCE WAS NOT (1), HARDLY (2),  
MODERATELY (3), QUITE (4), VERY (5), SHIELDED FROM  
NOISE OR SOUNDPROOFED. ( )

94 DURATION OF THE ENTIRE INTERVIEW IN MINUTES ( ) ( )

95 NUMBER OF THE ADDRESS OF THIS INTERVIEW ( ) ( ) ( ) ( )

PLEASE ENTER THE FOLLOWING DATA ON THE ROUTING CARD OF THE SUBJECT:

MALE FEMALE

WHETHER HE OR SHE IS WORKING

WHETHER HE OR SHE WEARS GLASSES

WHETHER HE OR SHE HAS DIFFICULTY WALKING

WHETHER HE OR SHE HAS CHILDREN

WHETHER THE SUBJECT FINISHED GRADE SCHOOL

IN ADDITION, THE DATE OF THE INTERVIEW AND YOUR INITIALS!

FLF PAGE 18 INTERVIEW NO. ( ) ( ) /61

GUIDELINES FOR INFORMING THE SUBJECT ABOUT THE COURSE OF INVESTIGATION.

ATTENTION INTERVIEWER: CONCERNS ONLY 21 - 60 YEAR-OLDS!

I still have to explain our study, in which you are participating, some-  
what more precisely.

The German Research Association is studying the living conditions of  
residents of large cities. The study began in Hamburg and is being  
continued now in Munich. A number of questions has resulted, which can-  
not be clarified completely by a survey.

Therefore a further portion of the study is necessary. This is concerned with the effect of a large city on the mental and physical state of health of the population. For this purpose experts have selected a group of persons, representative for the population in Munich. The scientific aim of the study is to gather answers on various questions from the same persons! This is very important for us and also the reason why no one should drop out. Otherwise the study would become inaccurate and lose its value.

You also belong to the selected group, and I would therefore like to request that you further cooperate with us, in the names of Prof. vonEiff, Prof. Hörmann, Prof. Irle, Dr. Jansen, and Dr. Martin!

Only when you continue to help us can we utilize this interview in the right way.

The intended examinations are simple and will hardly cause you any trouble. They are partially medical examinations, partially examinations of human modes of behavior and customs. (I think that some of the tasks will even be fun). The examinations will be held in our Munich experimental station in Bogenhausen.

You would then be picked up with a car and subsequently driven home.

WHERE APPLICABLE: You can gladly bring your children with you, since we have a very pleasant kindergarten teacher with a lot of play things.

OR: Of course, there are also some refreshments.

PERHAPS ALREADY BEFORE: At the conclusion you will receive a remuneration for your cooperation of DM 30.00; in addition there are DM 20.00 as compensation for the loss of time (or replacement of lost wages).

IN THE CASE OF EMPLOYEES: If you wanted to come during a working day, we would assist in convincing your employer to grant you the free time!

Can we expect that you will participate in our scientific examination under these circumstances?

DO NOT PERMIT A FINAL REFUSAL TO RESULT!

WHEN NECESSARY, USE THE FOLLOWING ARGUMENTS: THE ASSOCIATES ARE ALL PLEDGED TO MAINTAIN STRICT CONFIDENTIALITY/THIS IS A SCIENTIFIC EXAMINATION AND NOT A COMMERCIAL UNDERTAKING/THE EXAMINATION DOES NOT COST ANYTHING AND PROVIDES INFORMATION/YOU HAVE BEEN SELECTED IN THE RANDOM SAMPLE, REPRESENTATIVE FOR ALL PEOPLE IN MUNICH/IMPORTANT CONCLUSIONS WILL RESULT FOR THE FUTURE OF THE CITY/ETC. THE STUDY HAD A POSITIVE ECHO IN THE POPULATION IN HAMBURG! WHEN YOU REGISTER WILLINGNESS, CONTINUE: I would like to thank you in the name of the German Research Association, that you will continue to help us in our investigation.

In a few days an associate will visit you, in order to make an appointment at a convenient time for you.



INTERVIEWER: ENTER THE REASON FOR REFUSAL ON THE ROUTING CARD WHEN THE RESULTS ARE NEGATIVE!

Table A.4-1: List of the Most Important Programs Employed /62

- (1) SPSS: Statistical Package for the Social Sciences  
(N. NIE, D.H. BENT & C.H. HULL, 1970)
- Especially the following subprograms:  
CODEBOOK (Counting)  
CROSSTABS (Cross reference tables)  
REGRESSION (Regression analysis)
- (2) BMD: Biomedical Computer Programs  
W. J. Dixon, Ed., 1968)
- Especially the following programs:  
BMD06D (Average values and correlations for  
sub-groups)  
BMD03M (Analysis of factors)  
BMD02R (Step-by-step regression)
- (3) Programs of the German Computer Center (DRZ) in Darmstadt for  
Statistics:
- Especially the following programs:  
AERO (Similarly rotation of factor matrices;  
F. Gebhardt and H. Müller)  
COVT (Comparison of two covariant matrices,  
F. Gebhardt)  
FAKS (Factor scores; F. Gebhardt)  
LIPR (Test of linearity; F. Gebhardt)  
NRMP (Test of normality; F. Gebhardt)  
PAFA (Analysis of factors; P. Schnell & F. Gebhardt)  
REGT (Analysis of regression; F. Gebhardt)  
REV (Comparison of regressions for several groups;  
F. Gebhardt)
- (4) SUPCAN (Standard correlation analysis; J. Werner)
- (5) MANOVA (Variant analysis of multivariants; D. J. Clyde,  
E. M. Cramer, and R. J. Sherin)
- (6) Programs written "ad hoc" (S. Röck)
- Programs for the testing data  
MISDAT ("missing data" substitute)  
VAREL (Analysis of items)  
ZWEKST (Retest correlations)

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All calculations were carried out in the German Computer Center (DRZ) in Darmstadt or at the computer center of the University in Mannheim.

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## A.4.6.1.3

Table A.4-2: Frequency (N) and Percentage (%) of the Reasons for not conducting the Interview with those Persons who had moved in or away from Munich.

	a Umzügler		b Wegzügler	
	N	%	N	%
c Ausgangsadressen	160	100.0	91	100.0
d durchgeführte Befragungen	90	56.3	62	68.1
e Gründe für Nicht-Befragung:				
f Verweigerung	5	3.1	7	7.7
g Pb nie angetroffen	20	12.5	5	5.5
h Pb erneut verzogen h	13	8.1	3	3.3
i Adressenfehler	17	10.6	5	5.5
j Unfähigkeit (Krankheit etc.) j	3	1.9	2	2.2
k Pb verreist k	5	3.1	2	2.2
l Sonstiges	7	4.4	5	5.5

## Key:

- a. persons moving within Munich
- b. persons moving away from Munich
- c. primary addresses
- d. completed surveys
- e. reasons for not conducting the interview:
- f. refusal
- g. subject was never met
- h. subject moved once again
- i. error in address
- j. not capable (illness etc.)
- k. subject away on a trip
- l. others

Table A.4-3a: Factor weighting (FI)<sup>1</sup>, Coefficients of Retesting ( $r_{ii}$ ) and Selectivity ( $r_{it}$ ) of the items for the Variables Described in 4.6.3.1.

a Abneigung gegen Zivilisation und Technik (Frage Nr. 17)

Nr. <sup>2)</sup>	.1	.2	.3	.4	.5	.6	.7	.8
FI	-68	-64	29	32	-72	-73	40	44
$r_{ii}$ <sup>3)</sup>	56	41	26	29	53	33	25	08
$r_{it}$	76	74			77	74		

b Kritikbereitschaft (Frage Nr. 19)

Nr.	.1	.2	.3	.4	.5	.6	.7
FI	-64	-53	60	-62	-01	-72	63
$r_{ii}$	62	39	38	50	-03	34	25
$r_{it}$	64	58	58	63		69	62

c Hypochondrie (Fragen Nr. 21<sup>4)</sup> und 22)

Nr.	21	.1	.2	.3	.4	.5
FI		-56	-75	82	-86	79
$r_{ii}$	62	63	26	49	49	55
$r_{it}$	83		72	85	86	80

d Labilität (Frage Nr. 29)

Nr.	.1	.2	.3	.4	.5	.6	.7	.8	.9	.10	.11
FI	-67	-68	-54	-73	-66	-58	-45	-61	-57	-56	-75
$r_{ii}$	47	60	44	56	62	53	69	33	68	36	49
$r_{it}$	67	72		74	67	60		61	58	54	73

e Mobilität (Frage Nr. 32)

Nr.	.1	.2	.3	.4	.5	.6	.7	.8
FI	62	-48	49	-68	72	73	-71	-74
$r_{ii}$	58	36	60	55	53	64	44	54
$r_{it}$	67			67	73	75	70	75

f Lärmempfindlichkeit (Frage Nr. 36)

Nr.	.1	.2	.3	.4	.5	.6
FI	-66	-71	-74	41	-68	48
$r_{ii}$	50	60	53	10	45	39
$r_{it}$	73	72	75		71	

1) Ladung auf dem ersten unrotierten Hauptfaktor aus der Analyse der Items pro Variable

2) Unternummer innerhalb eines Frageblocks

3) nach Selektion und nach gleichsinniger Polung der Items

4) Frage Nr. 21 wurde zunächst bei der Analyse des Itemblocks Nr. 22 nicht berücksichtigt

Forts. : s. nächste Seite

Key:

Footnotes: 1) weighting on the first unrotated main factor from the analysis of the items per variable  
 2) subnumber within a question block  
 3) after selection and after positioning item poles in the same direction  
 4) question no. 21 was not immediately taken into consideration in the analysis of item block no. 22  
 (Key continued on following page)

Key:

- a. dislike for civilization and technology (question no. 17)
- b. readiness to criticize (question no. 19)
- c. hypochondria (questions no. 22<sup>4</sup> and 23)
- d. instability (question no. 29)
- e. mobility (question no. 32)
- f. noise sensitivity (question no. 36)

Table A.4-3a:

/64

<b>a Konservativismus (Frage Nr. 38)</b>										
Nr.	.1	.2	.3	.4	.5	.6	.7			
FI	29	-64	-64	47	-71	-75	34			
r <sub>ii</sub>	29	18	30	48	48	43	31			
r <sub>it</sub>		69	68		74	76				
<b>b Lärmgewöhnbarkeit (Frage Nr. 41)</b>										
Nr.	.1	.2	.3	.4	.5	.6	.7			
FI	67	-68	-73	82	-55	70	54			
r <sub>ii</sub>	44	41	50	50	54	33	48			
r <sub>it</sub>	71	71	75	81		71				
<b>c Furcht vor Flugzeugen (Frage Nr. 51)</b>										
Nr.	.1	.2	.3	.4	.5	.6	.7			
FI	-72	-80	63	-61	-64	53	-43			
r <sub>ii</sub>	40	46	38	38	53	11	78			
r <sub>it</sub>	74	81	67	64	63					
<b>d Glaube, daß Fluglärm gesundheitsschädlich ist (Frage Nr. 56)</b>										
Nr.	.1	.2	.3	.4	.5	.6				
FI	75	-75	65	-71	-72	58				
r <sub>ii</sub>	38	29	26	37	24	21				
r <sub>it</sub>	74	77	65	75	72					
<b>e Wertigkeit des Flugverkehrs (Frage Nr. 60)</b>										
Nr.	.1	.2	.3	.4	.5	.6				
FI	77	-61	74	75	-73	78				
r <sub>ii</sub>	54	37	47	24	41	43				
r <sub>it</sub>	79		78	73	72	80				
<b>f Störbarkheit durch Fluglärm (Frage Nr. 62)</b>										
Nr.	.1	.2	.3	.4	.5	.6	.7	.8	.9	.10
FI	-82	-79	79	-83	48	68	-75	46	-71	69
r <sub>ii</sub>	71	54	52	55	37	43	62	33	54	41
r <sub>it</sub>	82	81	78	83		66	77		74	69

Key:

- a. conservative attitude (question no. 38)
- b. adjustability to noise (question no. 41)
- c. fear of aircraft (question no. 51)
- d. opinion that aircraft noise is damaging to health (question no. 56)
- e. evaluation of flight traffic (question no. 60)
- f. amount of disturbance caused by aircraft noise (question no. 62)

Table A.4-3b: Coefficients of Retesting ( $r_{ii}$ ) and Selectivity ( $r_{it}$ ) of /65 the items for the variables described in 4.6.3.2

	BDW(18) <sup>1)</sup>				BDG(18)				VERK(18)				UMZ(30)			
Nr. <sup>2)</sup>	.1	.2	.4	.6	.7	.8	.10	.11	.1	.2						
r <sub>ii</sub>	42	61	57	48	66	44	53	76	54	44						
r <sub>it</sub>	92	92	79	76	81	73	87	86	94	92						
	ABED(42)								ASCH(42)				AHAR(42)			
Nr.	.10	.13	.15	.17	.2	.4	.8	.18	.9	.12						
r <sub>ii</sub>	40	49	42	52	49	49	19	52	18	16						
r <sub>it</sub>	83	84	89	86	81	82	58	78	84	73						
	AST(42)								PHF AL(47)				SCHM AL(47)			
Nr.	.1	.3	.7	.11	.14	x1	x2		y4	y9						
r <sub>ii</sub>	36	48	24	44	49	43	36		22	12						
r <sub>it</sub>	78	83	72	79	83	90	93		95	83						
	KOMM AL(47)								RUHE AL(47)				PHF FL(48)			
Nr.	x4	x5	y1	y6	y2	y3	y5	y7	y8	x1	x2					
r <sub>ii</sub>	44	49	30	40	56	38	61	49	33	60	54					
r <sub>it</sub>	83	83	81	82	85	76	86	84	79	90	90					
	SCHM FL				KOMM FL(48)				RUHE FL(48)							
Nr.	y4 <sup>(48)</sup>	y9	x4	x5	y1	y6	y2	y3	y5	y7	y8					
r <sub>ii</sub>	42	31	45	51	45	56	52	55	58	50	59					
r <sub>it</sub>	92	89	79	75	79	82	84	81	85	80	83					
	PHYM(53)								SOMA(53)				INFL(61)			
Nr.	.1	.2	.3	.4	.6	.7	.8	.10	.11	.1	.2	.3				
r <sub>ii</sub>	23	55	00	14	60	60	-02	86	49	31	12	20				
r <sub>it</sub>	78	60	45	65	70	61	60	80	63	81	82	81				

1) Abkürzungen der Variablenamen; dahinter in Klammern die Nr. des Itemblocks im Fragebogen. - Langnamen der Variablen s. Tab. A.4-7

2) Nr. des Items innerhalb des Itemblocks

Key:

- 1) abbreviations of variable names, followed by the number of item block in the questionnaire in parentheses. - See Table A.4-7 for the long names of the variables.
- 2) number of the item within the item block

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Table A.4-4: Scaled Value of Various Occupational Positions with Respect to Social Prestige - The Scale Ranges from "1" (Low Social Prestige) to "9" (High Social Prestige). Classification was carried out by 11 "Expert Guessers" (Students of Sociology in Higher Semesters)

a berufliche Position	b Skalenwert
Hilfsarbeiter c	1.00
Arbeiter, angelernt d	1.82
Arbeiter mit abgeschlossener Lehre e	3.00
Arbeiter mit Meister f	4.18
Beamter im einfachen Dienst g	3.91
Beamter im mittleren Dienst h	5.73
Beamter im höheren/gehobenen Dienst i	7.82
Angestellter in einfacher Position j	3.55
Angestellter mit Weisungsbefugnis k	6.55
Angestellter mit Handlungsvollmacht l	7.36
Selbständiger, Alleinbetrieb m	5.27
Selbständiger, 1-5 Mitarbeiter n	7.00
Selbständiger, größerer Betrieb o	8.45

## Key:

- a. occupational position
- b. scaled value
- c. unskilled worker
- d. trained worker
- e. journeyman
- f. master craftsman
- g. official at a low level of civilian service
- h. official in an average position of civilian service
- i. official in a higher position of civil service
- j. white-collar worker in a lower position
- k. white-collar worker in decision making position
- l. white-collar worker with proxy
- m. self-employed, working alone
- n. self-employed, 1 - 5 associates
- o. self-employed with larger operations

Table A.4-5: Distribution of net Income per Household (question no. 88) as well as Retest Reliability of this Variable

Kategorie (in DM)	bis 499	500- 749	750- 999	1000- 1249	1250- 1499	1500- 1749	1750- 1999	2000- 2249	b über 2250
c Häufigkeit	35	61	135	119	101	72	49	40	48
d Prozent	5.3	9.2	20.5	18.0	15.3	10.9	7.4	6.1	7.3

## Key:

- a. category (in German marks)
- b. above
- c. frequency
- d. percent

Table A.4-6: Average Values (M), Coefficients of Retesting ( $r_{ii}$ ) and Selectivity ( $r_{it}$ ) of the Items in the Index of Living Standard<sup>it</sup> (ownership of various consumer items) - Question no. 87 -

7	Nr.	8 Item	M	$r_{ii}$	$r_{it}$
	1	Waschmaschine	.71	88	55
	2	Pkw	.71	82	60
	3	Telefon	.50	88	65
	4	Schreibmaschine	.57	87	61
	5	Toaster	.49	85	56
	6	elektr. Küchenmaschine (Mixer)	.76	59	57
	9	Summenvariable			
			10	Mittelwert	3.75
			11	Standardabw.	1.67
			12	Zuverlässigkeit	89

Key:

1 washing machine  
 2 car  
 3 telephone  
 4 typewriter  
 5 toaster  
 6 mixer  
 7 No.  
 8 item  
 9 variable sums

10 average value  
 11 standard deviation  
 12 reliability

Table A.4-7: Average Values and Scattering of Various Variables

Abkürz.	Variable	M	s	r <sub>tt</sub>
$\bar{L}_A$	Mittlerer Überflugpegel $\bar{L}_A$	*		
D <sub>10</sub>	Mittlere Überflughöhe D <sub>10</sub>	*		
H <sub>R</sub>	Richthäufigkeit H <sub>R</sub>	*		
H <sub>R</sub>	Überflughäufigkeit H <sub>R</sub>	*		
FB1	Fluglärm-Bewertungsmaß FB1	*		
MW	Geschlecht (männlich = 0/weiblich = 1)	0.54	0.50	
ALTR	Alter	39.56	14.44	
BERU	Sozialprestige d. berufl. Position d. Hauptnährers (z-Wert)	0.00	1.00	.69
EINK	Haushaltsnettoeinkommen pro Kopf (z-Wert)	0.00	1.00	.75
LBST	Lebensstandard	3.75	1.68	.89
AUSB	Ausbildung	9.60	2.77	.83
WBT	Intelligenz: Wort-Bild-Test	29.15	9.55	.76
KON	Konservatismus	3.45	0.90	.44
ZIV	Abneigung gegen Zivilisation und Technik	2.30	1.00	.67
MOB	Mobilität	2.64	1.06	.77
UMZ	konkrete Umzugsschritte	0.27	0.60	.52
WDO	Wohndauer Ortsteil	13.01	11.71	.96
WDH	Wohndauer Haus	10.68	9.78	.98
BDW	Bindung an die Wohnung	3.95	1.15	.57
VERK	Zufriedenheit mit den Verkehrs- u. Einkaufsmöglichkeiten	3.40	1.25	.71
KRIT	Kritikbereitschaft	3.35	0.73	.56
HYP	Hypochondrie	1.98	1.04	.67
LAB	Labilität	1.97	0.86	.69
HAL	wahrgenommene Häufigkeit Autolärm	2.25	1.31	.60
LAL	wahrgenommene Lautheit Autolärm	2.43	1.09	.42
EAL	Erträglichkeit Autolärm	0.93	0.26	.27
PHF AL	Physikalische Folgen von Autolärm	1.15	0.50	.42
SCHM AL	Schmerzen infolge Autolärms	1.05	0.25	.24
KOMM AL	Kommunikationsstörungen infolge Autolärms	1.35	0.70	.54
RUHE AL	Störungen von Ruhe u. Entspannung infolge Autolärms	1.28	0.62	.62
LE	Lärmempfindlichkeit	3.62	1.12	.66
LG	Lärmgewöhnbarkeit	3.22	0.96	.62
GF	Glaube, daß FL gesundheitsschädlich ist	3.80	0.94	.49
WF	Wertigkeit des Flugverkehrs	4.06	0.88	.61
INFL	Informiertheit über Fluglärm durch Massenmedien	0.70	1.00	.41
M2	Lärmgewöhnbarkeitsfaktor M2	-0.00	0.78	
FF	Furcht vor Flugzeugen	2.54	1.04	.54
ABED	Aspekt des Bedrohlichen/Flugzeugbild	3.05	1.32	.62
ASCH	Aspekt des Schönen/Flugzeugbild	2.72	1.12	.61
AHAR	Aspekt des Harmlosen/Flugzeugbild	1.65	0.80	.22
AST	Aspekt des Störenden/Flugzeugbild	3.20	1.18	.58
V20.2	Nennung von FL auf die Frage nach Gesundheit u. Leben gefährdenden Lebensbedingungen	0.35	0.48	.38
V33.2	Nennung von FL auf die Frage nach störenden Lebensbedingungen	0.44	0.50	.37
HFL	wahrgenommene Häufigkeit Fluglärm	3.68	1.29	.54
LFL	wahrgenommene Lautheit Fluglärm	4.59	0.74	.35
EFL	Erträglichkeit Fluglärm	0.70	0.46	.59
BDG	Bindung an die Gegend	3.12	1.11	.69
PHF FL	Physikalische Folgen von Fluglärm	2.78	1.41	.64
SCHM FL	Schmerzen infolge Fluglärms	1.42	0.86	.42
KOMM FL	Kommunikationsstörungen infolge Fluglärms	3.35	1.27	.61
RUHE FL	Störungen von Ruhe u. Entspannung infolge FL	2.54	1.26	.65
PHYM	Physikalische Maßnahmen gegen Fluglärm	0.27	0.61	.37
SOMA	Soziale Maßnahmen gegen Fluglärm	0.36	0.81	.83
SF	Störbarkeit durch Fluglärm	3.26	1.12	.73
RIU	Globalreaktion RIU	0.00	0.95	

\* s. Kapitel 3

Key: See following page

Key:

<u>Abbreviation</u>	<u>Variable</u>
$\bar{L}_A$	average noise level of fly-overs $\bar{L}_A$
$D_{10}$	average duration of fly-overs $D_{10}$
$H_R$	normalized frequency $H_R$
$H_R$	frequency of fly-overs $H_{81}$
FB1	measure for evaluation of aircraft noise FB1
MW	sex (male = 0/female = 1)
ALTR	age
BERU	social prestige of the occupational position of the main wage-earner (z value)
EINK	net income of household per person (z value)
LBST	standard of living
AUSB	education
WBT	intelligence: word-picture test
KON	conservative attitude
ZIV	dislike of civilization and technology
MOB	mobility
UMZ	concrete steps undertaken to move location
WDO	length of stay in location
WDH	length of stay in the house
BDW	attachment to the dwelling
VERK	satisfaction with public transportation and shopping facilities
KRI <sup>m</sup>	readiness to criticize
HYP	hypochondria
LAB	instability
HAL	frequency of perceived automobile noise
LAL	perceived loudness of automobile noise
EAL	tolerability of automobile noise
PHF AL	physical consequences of automobile noise
SCHM AL	
KOMM AL	disruptions in communication due to automobile noise
RUHE AL	disruptions in rest and relaxation due to automobile noise
LE	sensitivity to noise
LG	adjustment to noise

(Key continued on following page)



<u>Abbreviation</u>	<u>Variable</u>
GF	opinion that aircraft noise is detrimental to health
WF	evaluation of air travel
INFL	information on aircraft noise accessible in the mass media
M2	factor of adjustability to noise M2
FF	fear of aircraft
ABED	the threatening aspects of a picture of an aircraft
ASCH	the aspect of beauty in a picture of an aircraft
AHAR	the aspect of the harmlessness in a picture of an aircraft
AST	the disturbing aspect of a picture of an aircraft
V20.2	mention of aircraft noise when answering the question about living conditions which endanger health and life
V33.2	mention of aircraft noise when answering the question about disturbing living conditions
HFL	perceived frequency of aircraft noise
LFL	perceived loudness of aircraft noise
EFL	tolerability to aircraft noise
BDG	attachment to the neighborhood
PHF FL	the physical consequences of aircraft noise
SCHM FL	pain due to aircraft noise
KOMM FL	disruptions in communication due to aircraft noise
RUHE FL	disruptions in rest and relaxation due to aircraft noise
PHYM	physical measures undertaken against aircraft noise
SOMA	social measures undertaken against aircraft noise
SF	tendency to be disturbed by aircraft noise
RLU	global reaction RLU

\*See chapter 3

Table A.4-8: Intercorrelation of 55 Variables  
(Abbreviations for Variable Names: See Previous Table)

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Var:	$\bar{L}_A$	D <sub>10</sub>	H <sub>R</sub>	H <sub>81</sub>	FB1	MW	ALTR	BERU	EINK	LBST	AUSB	WBT	KOA
$\bar{L}_A$						03	01	-05	-02	-03	-07	-04	04
D <sub>10</sub>						00	-00	08	04	07	06	04	-04
H <sub>R</sub>	(s. Tab. 3-6)					05	01	-06	-03	-04	-07	-06	08
H <sub>81</sub>						05	02	-06	-03	-03	-07	-06	06
FB1						05	01	-05	-02	-02	-06	-05	05
MW	03	00	05	05	05	-	04	-00	-06	-04	-21	-22	05
ALTR	01	-00	01	02	01	04	-	-03	-03	-07	-19	-27	44
BERU	-05	08	-06	-06	-05	-00	-03	-	33	43	34	36	-18
EINK	-02	04	-03	-03	-02	-06	-03	33	-	11	22	26	-21
LBST	-03	07	-04	-03	-02	-04	-07	43	11	-	19	31	-11
AUSB	-07	06	-07	-07	-06	-21	-19	34	22	19	-	49	-30
WBT	-04	04	-06	-06	-05	-22	-27	36	26	31	49	-	-36
KON	04	-04	08	06	05	05	44	-18	-21	-11	-30	-36	-
ZIV	-01	03	00	-00	-01	14	31	-12	-06	-17	-23	-29	31
MOB	-02	01	-04	-03	-03	-20	-69	12	10	09	33	31	-50
UMZ	-01	02	03	02	02	-04	-07	00	-04	-06	00	05	-06
WDO	16	-15	15	16	16	01	35	-07	-12	05	-19	-16	17
WDH	11	-13	11	12	12	03	36	-06	-10	05	-18	-14	18
BDW	-08	08	-13	-11	-11	-03	09	08	05	06	-02	-05	09
VERK	12	-17	16	11	15	03	06	-14	-15	-08	-18	-21	18
KRIT	-08	07	-03	-05	-06	03	00	00	03	-05	-11	-01	04
HYP	-05	03	00	-01	-03	09	34	-11	-12	-07	-16	-16	17
LAB	-01	-01	04	03	02	22	29	-15	-18	-14	-19	-20	19
HAL	07	-09	13	08	11	00	01	-04	-11	-01	-08	-04	09
LAL	04	-08	10	05	08	-04	-00	00	-09	-02	01	-02	10
EAL	05	-04	-00	03	03	-02	-05	-03	-04	07	-04	01	-05
PHF AL	15	-18	15	13	16	-09	03	02	-00	-02	-02	-02	03
SCHM AL	07	-10	09	07	08	-08	00	-02	-03	-05	-13	-04	04
KOMM AL	11	-16	14	11	13	-04	00	-03	-07	-09	-6	-03	07
RUHE AL	01	-08	05	01	03	-07	04	02	-02	-06	03	03	01
LE	-04	08	04	01	01	19	18	03	-04	02	-04	-07	17
LC	-02	04	-03	-02	-02	-06	-10	-13	-06	-06	-09	-07	-05
GF	11	-06	08	10	11	01	25	10	08	07	04	07	05
WF	-11	08	-13	-13	-12	-14	-30	19	22	16	27	39	-36
INFL	14	-11	12	13	13	-14	10	00	-02	03	-06	03	10
M2	-08	04	-08	-09	-09	-11	-24	-12	-02	-06	01	-01	-14
FF	18	-13	19	20	19	23	25	-10	-17	-07	-21	-30	28
ABED	18	-16	18	18	19	14	30	-08	-10	-07	-24	-31	31
ASCH	-13	13	-06	-10	-10	-08	-15	-01	-04	-09	09	04	-04
AHAR	-04	03	-03	-04	-05	-04	-14	-07	-01	-05	03	01	-06
AST	23	-22	24	24	24	-02	25	-06	-12	02	-19	-21	21
V20.2	33	-26	33	34	34	-02	10	11	06	11	-03	10	-
V33.2	33	-24	34	36	35	-05	-05	05	00	11	-04	07	-
HFL	43	-36	47	48	47	-00	15	-04	-06	07	-08	-09	-
LFL	28	-23	28	30	30	-01	10	03	02	10	02	01	-
EFL	-38	30	-35	-38	-39	03	-15	-03	05	-05	07	02	-
BDG	-49	40	-48	-49	-51	-02	-06	00	03	-03	07	04	-
PHF FL	40	-35	37	40	40	05	21	-06	-09	02	-17	-14	-
SCHM FL	28	-25	26	28	28	04	15	-06	-09	-02	-09	-07	-
KOMM FL	51	-45	56	56	56	05	06	-01	-10	10	-06	-04	-
RUHE FL	36	-32	38	39	39	04	24	02	-08	05	-08	-06	-
PHYM	16	-13	15	16	16	-08	14	04	-01	08	-00	-01	-
SOMA	24	-20	21	23	24	-11	13	10	05	18	04	08	-
SF	39	-32	41	42	42	04	21	05	-04	11	-08	01	-
RIU	-53	-44	-53	-55	-56	-01	-22	-01	07	-10	09	05	-

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Table A.4-8: Continuation 1

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Var.	ZIV	MOB	UMZ	WDO	WDH	BDW	VERK	KRIT	HYP	LAB	HAL	LAL
LA	-01	-02	-01	16	11	-08	12	-08	-05	-01	07	04
D10	03	01	02	-15	-13	08	-17	07	03	-01	-09	-08
HR	00	-04	03	15	11	-13	16	-03	00	04	13	10
H81	-00	-03	02	16	12	-11	11	-05	-01	03	08	05
FBI	-01	-03	02	16	12	-11	15	-06	-03	02	11	08
MW	14	-20	-04	01	03	-03	03	03	09	22	00	-04
ALTR	31	-69	-07	35	36	09	06	00	34	29	01	-00
BERU	-12	12	00	-07	06	08	-14	00	-11	-15	-04	00
EINK	-06	10	-04	-12	-10	05	-15	03	-12	-18	-11	-09
LBST	-17	09	-06	05	05	06	-08	-05	-07	-14	-01	-02
AUSB	-23	33	00	-19	-18	-02	-18	-11	-16	-19	-08	01
WBT	-29	31	05	-16	-14	-05	-21	-01	-16	-20	-04	-02
KON	31	-50	-06	17	18	09	18	04	17	19	09	10
ZIV	-	-28	-06	15	17	01	02	23	21	29	10	11
MOB	-28	-	07	-28	-30	-07	-11	-03	-29	-25	04	02
UMZ	-06	07	-	-08	-06	-36	-07	11	-01	00	-02	-03
WDO	15	-28	-08	-	83	-04	16	-10	11	10	07	04
WDH	17	-30	-06	83	-	-01	09	-07	14	12	05	00
BDW	01	-07	-36	-04	-01	-	03	-08	-04	-00	-12	-10
VERK	02	-11	-07	16	09	03	-	-11	-08	00	10	12
KRIT	23	-03	11	-10	-07	-08	-11	-	12	16	11	09
HYP	21	-29	-01	11	14	-04	-08	12	-	61	09	04
LAB	29	-26	00	10	12	-00	00	16	61	-	16	12
HAL	10	04	-02	07	05	-12	10	11	09	16	-	55
LAL	11	02	-03	04	00	-10	12	09	04	12	55	-
EAL	-09	00	00	-00	-01	04	-01	-10	-00	-01	-19	-22
PHF AL	09	04	-02	13	14	-09	05	01	-00	01	34	27
SCHM AL	06	05	03	01	02	-03	03	05	00	08	28	25
KOMM AL	13	03	-02	11	08	-10	07	05	08	11	45	42
RUHE AL	09	03	-01	06	05	-06	07	05	05	09	52	49
LE	20	-17	-08	08	06	-04	01	09	16	29	16	20
LG	-11	05	06	-03	-04	-04	12	-10	-15	-11	-15	-16
GF	16	-18	-04	12	12	01	-14	09	18	19	07	06
WF	-37	32	-00	-21	-26	-07	-13	-09	-16	-23	-13	-13
INFL	12	-03	-00	05	03	-00	-01	06	04	11	12	09
M2	-38	17	00	-11	-13	03	22	-33	-20	-28	-17	-18
FF	26	-30	-03	16	14	07	08	06	16	28	08	08
ABED	30	-33	-04	21	21	03	07	14	16	23	09	06
ASCH	-06	15	-03	-11	-12	-03	10	-06	-03	-02	05	04
AHAR	-08	12	-03	-13	-13	-01	00	-06	-07	-07	-05	-04
AST	23	-28	-03	19	18	02	03	16	14	20	11	08
20.2	07	-05	01	14	14	-03	-02	02	05	05	05	01
20.2	02	03	03	07	05	01	02	-05	-06	-05	10	02
REL	10	-14	01	19	12	-01	04	06	07	13	16	14
REL	03	-06	-01	09	07	05	05	-01	06	12	03	-02
REL	-13	14	02	-24	-21	03	03	-10	-05	-15	-09	-12
RDG	-12	03	-10	-14	-14	21	14	-08	-11	-17	-29	-19
PHF FL	18	-19	-02	26	23	-12	05	03	15	21	13	11
SCHM FL	16	-11	-01	10	09	01	02	06	11	27	15	10
KOMM FL	06	-09	04	15	13	-10	06	08	08	1	14	10
RUHE FL	18	-20	-02	19	17	-05	-00	07	15	28	21	18
PHYM	06	-08	-02	07	06	03	01	07	04	11	14	15
PHMA	07	-06	-06	20	16	-02	-03	-02	-02	01	06	06
PH	16	-18	03	22	18	-00	-07	12	11	24	19	16
PH	-18	18	-00	-25	-21	06	01	-09	-13	-27	-22	-18

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OF POOR QUALITY

Table A.4-8: Continuation 2

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Var.:	EAL	PHF AL	SCHM AL	KOMM AL	RUHE AL	LE	LG	GF	WF	INFL	M2	FF
LA	05	15	07	11	01	-04	-02	11	-11	14	-08	18
D10	-04	-18	-10	-16	-08	08	04	-06	08	-11	04	-13
HR	-00	15	09	14	05	04	-03	08	-13	12	-08	19
H81	03	13	07	11	01	01	-02	10	-13	13	-09	20
FB1	03	16	08	13	03	01	-02	11	-12	13	-09	19
MW	-02	-09	-08	-04	-07	19	-06	01	-14	-14	-11	23
ALTR	-05	03	00	00	04	18	-10	25	-30	10	-24	25
BERU	-03	02	-02	-03	02	03	-13	10	19	00	-12	-10
EINK	-04	-00	-03	-07	-02	-04	-06	08	22	-02	-02	-17
LBST	07	-02	-05	-09	-06	02	-06	07	16	03	-06	-07
AUSB	-04	-02	-03	-06	03	-04	-09	04	27	-06	01	-21
WBT	01	-02	-04	-03	03	-07	-07	07	39	03	-01	-30
KON	-03	03	04	07	01	17	-05	05	-36	10	-14	28
ZIV	-09	09	06	13	09	20	-11	16	-37	12	-38	26
MOB	00	04	05	03	03	-17	05	-18	32	-03	17	-30
UMZ	00	-02	03	-02	-01	-08	06	-04	-00	-00	00	-03
WDO	-00	13	01	11	06	08	-03	12	-21	05	-11	16
WDH	-01	14	02	08	05	06	-04	12	-26	03	-13	14
BDW	04	-09	-03	-10	-06	-04	-04	01	-07	-00	03	07
VERK	-01	05	03	07	07	01	12	-14	-13	-01	22	08
KRIT	-10	01	05	05	05	09	-10	09	-09	06	-33	06
HYP	-00	-00	00	08	05	16	-15	18	-16	04	-20	16
LAB	-01	01	08	11	09	29	-11	19	-23	11	-28	28
HAL	-19	34	28	45	52	16	-15	07	-13	12	-17	08
LAL	-22	27	25	42	49	20	-16	06	-13	09	-18	08
EAL	-	-16	-07	-16	-30	-05	13	-07	02	-02	14	-02
PHF AL	-16	-	37	56	48	06	-11	07	-09	13	-11	02
SCHM AL	-07	37	-	45	52	06	-06	05	-12	10	-11	11
KOMM AL	-16	56	45	-	68	11	-12	06	-17	16	-16	07
RUHE AL	-30	48	52	68	-	18	-24	13	-15	11	-24	06
LE	-05	06	06	11	18	-	-33	30	-18	12	-54	29
LG	13	-11	-06	-12	-24	-33	-	-36	15	-04	70	-22
GF	-07	07	05	06	13	30	-36	-	-19	17	-75	28
WF	02	-09	-12	-17	-15	-18	15	-19	-	-08	43	-45
INFL	-02	13	10	16	11	12	-04	17	-08	-	-22	12
M2	14	-11	-11	-16	-24	-54	70	-75	43	-22	-	-40
FF	-02	02	11	07	06	29	-22	28	-45	12	-40	-
ABED	-06	06	10	09	09	23	-13	31	-34	18	-40	53
ASCH	04	03	-03	00	00	-03	17	-21	16	-02	41	-16
AHAR	08	03	05	-05	-05	-15	15	-25	06	00	32	-17
AST	-07	03	06	05	05	19	-18	35	-25	21	-43	39
V20.2	-06	07	01	04	05	14	-18	35	-05	18	-32	16
V33.2	-04	04	04	02	07	02	-12	20	-09	12	-21	09
HFL	-03	10	02	07	07	14	-15	20	-17	21	-26	26
LFL	-06	04	-02	01	02	04	-07	15	-06	10	-14	20
EFL	16	-13	-10	-07	-09	-20	25	-37	23	-20	43	-27
BDG	12	-17	-14	-20	-19	-12	23	-31	19	-11	38	-17
PHF FL	02	14	11	17	11	09	-11	23	-21	23	-26	28
SCHM FL	05	12	28	18	16	18	-14	27	-24	26	-31	32
KOMM FL	-00	11	11	17	11	17	-16	23	-15	20	-29	27
RUHE FL	-06	14	17	20	29	33	-34	44	-27	26	-53	43
PHYM	-06	12	16	18	18	14	-05	16	-11	12	-18	09
SOMA	-01	10	10	11	08	13	-13	22	-07	24	-23	14
SF	-10	14	11	16	20	32	-38	52	-26	25	-60	43
R1U	08	-18	-18	-21	-22	-28	31	-46	28	-30	54	-42

Table A.4-8: Continuation 3

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Var.:	ABED	ASCH	AHAR	AST	V 20.2	V 33.2	HFL	LFL	EFL	BDG	PHF FL	SCHM FL
LA	18	-13	-04	23	33	33	43	28	-38	-49	40	28
D10	-16	13	03	-22	-26	-24	-36	-23	30	40	-35	-25
HR	18	-06	-03	24	33	34	47	28	-35	-48	37	26
H81	18	-10	-04	24	34	36	48	30	-38	-49	40	28
FB1	19	-10	-05	24	34	35	47	30	-39	-51	40	28
MW	14	-08	-04	-02	-02	-05	-00	-01	03	-02	05	04
ALTR	30	-15	-14	25	10	-05	15	10	-15	-06	21	15
BERU	-08	-01	-07	-06	11	05	-04	03	-03	00	-06	-06
EINK	-10	04	-01	-12	06	00	-06	02	05	03	-09	-09
LBST	-07	-09	-05	02	11	11	07	10	-05	-03	02	-02
AUSB	-24	09	03	-19	-03	-04	-08	02	07	07	-17	-09
WBT	-31	04	01	-21	10	07	-09	01	02	04	-14	-07
KON	32	-06	-06	22	00	-04	14	02	-07	01	13	10
ZIV	30	-06	-08	23	07	02	10	03	-13	-12	18	16
MOB	-33	15	12	-28	-05	03	-14	-06	14	03	-19	-11
UMZ	-04	-03	-03	-03	01	03	01	-01	02	-10	-02	-01
WDO	21	-11	-13	19	14	07	19	09	-24	-14	26	10
WDH	21	-12	-13	18	14	05	12	07	-21	-14	23	09
BDW	03	-03	-01	02	-03	01	-01	05	03	21	-12	01
VERK	07	10	00	03	-02	02	04	05	03	14	05	02
KRIT	14	-06	-06	16	02	-05	06	-01	-10	-08	03	06
HYP	16	-03	-07	14	05	-06	07	06	-05	-11	15	11
LAB	23	-02	-07	20	05	-05	13	12	-15	-17	21	27
HAL	09	05	-05	11	05	10	16	03	-09	-29	13	15
LAL	06	04	-04	08	01	02	14	-02	-12	-19	11	10
EAL	-06	04	08	-07	-06	-04	-03	-06	16	12	02	05
PHF AL	06	03	03	03	07	04	10	04	-13	-17	14	12
SCHM AL	10	-03	05	06	01	04	02	-02	-10	-14	11	28
KOMM AL	09	00	-05	05	04	02	07	01	-07	-20	17	18
RUHE AL	09	00	-05	05	05	07	07	02	-09	-19	11	16
LE	23	-03	-15	19	14	02	14	04	-20	-12	09	18
LG	-13	17	15	-18	-18	-12	-15	-07	25	23	-11	-14
GF	31	-21	-25	35	35	20	20	15	-37	-31	23	27
WF	-34	16	06	-25	-05	-09	-17	-06	23	19	-21	-24
INFL	18	-02	00	21	18	12	21	10	-20	-11	23	26
M2	-40	41	32	-43	-32	-21	-26	-14	43	38	-26	-31
FF	53	-16	-17	39	16	09	26	20	-27	-17	28	32
ABED	-	-26	-24	66	22	18	28	16	-35	-19	34	26
ASCH	-26	-	04	-35	-18	-21	-14	-10	24	22	-14	-14
AHAR	-24	04	-	-25	-12	-07	-10	-12	16	14	-14	-02
AST	66	-35	-25	-	27	25	32	23	-36	-30	31	28
V20.2	22	-18	-12	27	-	43	29	19	-43	-41	27	27
V33.2	18	-21	-07	25	43	-	30	23	-34	-37	26	20
HFL	28	-14	-10	32	29	30	-	38	-40	-40	44	30
LFL	16	-10	-12	23	19	23	38	-	-19	-19	21	14
EFL	-35	24	16	-36	-43	-34	-40	-19	-	-	-40	-38
BDG	-19	22	14	-30	-41	-37	-40	-15	-	-	-36	-34
PHF FL	21	14	-14	31	27	26	34	31	-40	-36	-	40
SCHM FL	26	-14	-02	20	27	26	30	14	-38	-34	40	-
KOMM FL	32	-17	-15	34	30	29	35	35	-39	-47	56	38
RUHE FL	42	-22	-20	43	42	35	49	31	-49	-49	56	58
PHYM	10	-10	-02	11	20	14	15	11	-27	-23	19	27
SOMA	17	-12	-04	20	27	20	21	12	-35	-25	28	29
SF	42	-31	-21	49	46	44	53	33	-64	-53	50	55
RIU	-43	27	19	-48	-49	-45	-64	-47	70	65	-68	-64

Table A.4-8: Continuation 4

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Var.:	KOMM FL	RUHE FL	PHYM	SOMA	SF	RIU
LA	51	36	16	24	39	-53
D10	-45	-32	-13	-20	-32	44
HR	56	38	15	21	41	-53
H81	56	39	16	23	42	-55
FB1	56	39	16	24	42	-56
MW	05	04	-08	-11	04	-01
ALTR	06	24	14	13	21	-22
BERU	-01	02	04	10	05	-01
EINK	-10	-08	-01	05	-04	07
LBST	10	05	08	18	11	10
AUS3	-06	-08	-00	04	-08	09
WBT	-04	-06	-01	08	01	05
KON	09	17	-06	-01	12	-12
ZIV	06	18	06	07	16	-18
MOB	-09	-20	-08	-06	-18	18
UMZ	04	-02	-02	-06	03	-00
WDO	15	19	07	20	22	-25
WDH	13	17	06	16	18	-21
BDW	-10	-05	03	-02	-00	06
VERK	06	-00	01	-03	-07	01
KRIT	08	07	07	-02	12	-09
HYP	08	15	04	-02	11	-13
LAB	17	28	11	01	24	-27
HAL	14	21	14	06	19	-22
LAL	10	18	15	06	16	-18
EAL	-00	-06	-06	-01	-10	08
PHF AL	11	14	12	10	14	-18
SCHM AL	11	17	16	10	11	-18
KOMM AL	17	20	18	11	16	-21
RUHE AL	11	29	18	08	20	-22
LE	17	33	14	13	32	-28
LG	-16	-34	-05	-13	-38	31
GF	23	44	16	22	52	-46
WF	-15	-27	-11	-07	-26	28
INFL	20	26	12	24	25	-30
M2	-29	-53	-18	-23	-60	54
FF	27	43	09	14	43	-42
ABED	32	42	10	17	42	-43
ASCH	-17	-22	-10	-12	-31	27
AHAR	-15	-20	-02	-04	-21	19
AST	34	43	11	20	49	-48
V20.2	33	42	20	27	46	-49
V33.2	38	35	14	20	44	-48
HFL	46	49	15	21	53	-64
LFL	35	31	11	12	33	-47
EFL	-39	-54	-27	-35	-64	70
BDG	-47	-49	-23	-25	-53	65
PHF FL	56	56	19	28	50	-68
SCHM FL	38	58	27	29	47	-64
KOMM FL	-	64	22	26	59	-74
RUHE FL	64	-	28	36	76	-87
PHYM	22	28	-	40	25	-41
SOMA	26	36	40	-	36	-42
SF	59	76	25	36	-	-87
RIU	-74	-87	-41	-49	-87	-

Table A.4-9: Measure of Certainty for Linear (l) Quadratic (q) and Cubic (k) Relations for the 23 Moderator Variables Described in 4.6.4.2 on a Secondary Data Level

a. Independent Variable	b. Dependent Variable																						
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
1 WDO	1	690	122	025	024	002	025	009	011	011	079	006	030	001	013	016	014	042	002	005	013	034	002
q		695	122	028	024	002	045	010	012	015	081	007	037	002	013	017	016	049	002	020	055	044	003
k		696	128	037	024	002	048	011	020	015	089	007	048	002	016	018	017	049	002	020	060	058	010
2 WDH	690		129	020	030	000	008	005	019	014	091	003	031	002	014	018	014	066	001	004	010	034	002
	691		135	033	031	001	016	005	020	018	098	003	046	003	014	018	014	066	001	016	031	044	002
	691		140	033	031	002	018	008	025	018	101	004	048	007	020	018	015	066	003	017	031	048	021
3 ALIR	122	129		073	098	008	004	000	113	077	480	034	195	010	021	020	063	092	010	001	001	037	005
	135	149		102	104	015	006	028	116	079	486	043	196	031	022	025	084	103	012	018	013	043	033
	136	153		107	104	015	007	029	116	079	489	043	200	032	027	026	084	104	012	020	016	048	034
4 WRI	025	020	073		086	002	046	000	023	039	094	004	130	005	002	000	005	150	001	129	065	237	099
	030	026	081		094	003	046	007	024	041	097	005	145	006	003	000	013	151	002	131	069	306	110
	031	026	083		095	003	047	008	025	049	097	005	145	006	004	002	014	152	005	132	071	337	110
5 ZIV	024	030	098	086		000	000	052	043	084	077	037	098	012	004	006	026	140	014	013	004	055	028
	024	030	098	088		000	001	055	050	086	083	038	101	012	005	006	029	140	016	014	007	056	030
	024	030	098	088		005	001	056	051	088	088	042	106	016	005	008	035	151	016	015	007	056	030
6 BDW	002	000	008	002	000		001	006	002	000	005	002	008	002	001	000	000	006	000	006	003	000	004
	005	004	015	022	003		004	006	002	000	017	002	014	006	010	005	002	008	006	008	008	016	008
	005	004	017	027	003		006	007	005	007	018	002	016	007	013	006	002	008	007	008	008	017	008
7 VERK	025	008	004	046	000	001		012	006	000	012	000	032	015	010	000	018	016	000	018	021	031	006
	031	018	004	046	004	001		012	006	001	016	000	033	015	011	000	019	022	000	019	021	034	008
	031	021	004	046	004	001		012	009	001	018	007	035	015	013	000	019	022	003	019	022	036	008
8 KRT	009	005	000	000	052	006	012		014	024	001	008	002	009	004	003	009	007	004	000	001	013	003
	011	008	007	006	053	008	012		015	025	001	011	007	009	004	011	009	011	008	000	001	018	004
	014	010	007	006	065	009	013		015	025	003	016	021	010	004	015	009	015	010	003	001	022	004
9 HYP	011	019	113	023	043	002	006	014		370	082	026	029	023	001	005	032	027	002	011	014	026	005
	013	024	115	023	049	008	006	019		374	084	028	034	026	003	005	035	035	002	011	015	030	009
	015	025	138	023	062	009	007	020		379	097	034	037	029	003	006	044	038	002	011	015	031	009
10 LAB	011	014	077	039	084	000	000	024	370		069	083	037	012	000	005	037	052	012	022	031	037	020
	011	016	081	040	088	000	009	027	371		070	088	037	017	001	005	039	052	013	022	032	042	025
	012	017	082	041	088	000	010	027	373		071	097	040	020	001	005	048	056	013	022	035	043	026
11 MOB	079	091	480	094	077	005	012	001	082	069		030	253	002	022	014	031		001	015	010	106	007
	092	104	504	095	077	013	014	009	095	076		030	254	002	024	014	032	105	001	019	010	112	019
	093	105	506	095	080	015	018	010	095	076		033	254	003	025	018	032	107	001	021	012	114	022

Key:

a. independent variable

b. dependent variable

Table A.4-9: Continuation

a. unabhängige Variable	b. abhängige Variable:																						
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
12 LE I	006	003	034	004	037	002	000	008	026	083	030		029	106	001	022	089	032	013	001	002	002	000
q	006	005	035	023	040	002	005	008	033	091	036		035	108	002	022	096	042	015	021	002	009	006
k	006	005	035	023	041	002	005	008	035	094	036		042	108	002	022	100	042	018	021	005	009	008
13 KON	030	031	195	130	098	008	032	002	029	037	253	029		002	004	004	003	129	010	031	044	092	012
	030	031	213	130	100	008	034	004	031	037	253	030		003	004	010	003	131	021	032	050	093	014
	030	032	213	130	108	012	035	007	032	037	253	030		005	006	013	005	132	021	037	054	093	019
14 LG	001	002	010	005	012	002	015	009	023	012	002	106	002		028	023	131	023	002	018	003	008	004
	001	002	010	017	012	005	015	010	024	015	004	113	002		029	023	131	023	003	024	004	010	018
	001	002	010	018	016	006	022	010	024	015	004	113	003		031	025	133	023	006	026	005	010	019
15 ASCH	013	014	021	002	004	001	010	004	001	000	022	001	004	028		002	045	027	000	000	001	007	008
	013	016	034	002	004	002	012	008	001	005	023	003	004	029		011	061	028	001	004	016	007	009
	014	017	034	009	014	005	013	002	002	005	023	003	009	043		014	066	039	001	030	022	010	013
16 AHAR	016	018	020	000	006	000	000	003	005	005	014	022	004	023	002		060	003	000	004	000	001	002
	016	021	020	009	008	001	003	008	005	005	014	023	005	025	026		063	004	000	005	002	004	003
	017	021	024	009	011	004	004	010	008	005	020	024	006	025	033		063	004	000	005	008	004	003
17 GF	014	014	063	005	026	000	018	009	032	037	031	089	003	131	045	060		037	028	009	006	002	005
	016	023	063	005	026	000	020	009	033	041	032	089	006	136	045	074		037	029	009	007	003	005
	019	028	064	005	028	001	020	009	033	044	032	089	006	136	046	091		038	029	009	007	003	006
18 WF	042	066	092	150	140	006	016	007	027	052	105	032	129	023	027	003	037		006	036	047	075	025
	046	074	097	152	144	008	017	010	030	058	105	034	134	031	028	009	038		008	040	047	076	028
	047	074	097	152	145	009	020	011	030	058	106	041	135	033	028	012	044		009	041	050	077	028
19 INFL	002	001	010	001	014	000	000	004	002	012	001	013	010	002	000	000	028	006		000	000	004	001
	003	001	011	005	015	000	004	005	016	029	001	014	010	004	002	001	032	006		013	007	016	011
	012	005	012	008	016	002	006	010	017	029	001	014	011	004	003	001	032	009		015	007	021	013
20 BERU	005	004	001	129	013	006	018	000	011	022	015	001	031	018	000	004	009	036	000		108	105	182
	006	004	006	133	016	007	019	000	013	022	015	001	031	018	000	006	009	043	000		109	118	183
	006	005	007	135	016	008	022	000	016	023	016	008	033	018	001	006	012	043	001		109	124	183
21 ENK	013	010	001	065	004	003	021	001	014	031	010	002	044	003	001	000	006	047	000	108		047	011
	024	016	012	080	004	008	021	020	022	038	019	002	049	004	002	022	006	060	001	125		057	030
	027	018	013	085	005	008	023	025	024	045	020	002	052	004	012	022	006	066	002	130		057	049
22 AUSB	034	034	037	237	055	000	031	013	026	037	106	002	092	008	007	001	002	075	004	116	047		036
	038	036	078	271	058	003	034	013	031	038	123	003	097	008	007	001	002	091	007	138	048		049
	043	039	106	275	059	004	037	017	032	038	126	005	104	009	007	001	003	100	014	138	048		054
23 LBST	002	002	005	099	028	004	006	003	005	020	007	000	012	004	008	002	005	025	001	182	011	036	
	002	002	011	099	032	006	006	003	006	021	011	000	018	004	010	002	008	025	004	194	012	040	
	005	004	012	102	032	006	006	003	006	021	012	000	019	008	013	005	011	026	005	194	013	042	

Key:

a. independent variable

b. dependent variable



Table A.4-10: Measure of Certainty for Linear (l), Quadratic (q) and Cubic (k) Relations of 10 Reaction Variables of the Secondary Data Set among One Another, as well as the Relations of these to the Fly-Over Noise Level  $L_A$ , the Duration of Fly-Over  $D_{10}$  and the Normalized Frequency  $H_R$

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a		b abhängige Variable:									
unabhäng. Variable:		HFL	LFL	BDG	PHF	SCHM	KOMMRUHE	PHYM	SOMA	SF	
HFL	l		140	158	191	089	207	235	024	045	284
	q		154	158	192	097	208	238	024	047	284
	k		168	163	195	097	214	239	024	047	288
LFL		140		037	099	019	121	095	011	015	112
		141		039	099	019	127	096	012	016	117
		148		039	102	022	130	097	012	017	122
BDG		158	037		128	112	221	237	054	063	282
		161	041		131	118	224	239	063	069	282
		161	041		131	120	225	239	063	070	283
PHF FL		191	099	128		163	314	313	036	078	253
		193	110	129		179	316	314	046	079	256
		196	112	134		182	317	314	049	086	263
SCHM FL		089	019	112	163		146	339	072	083	216
		102	022	121	172		168	367	072	086	239
		103	024	123	174		173	374	079	086	240
KOMM FL		207	121	221	314	146		408	048	069	348
		210	138	226	324	177		417	054	077	352
		210	138	226	324	178		419	054	077	353
RUHE FL		235	095	237	313	339	408		079	129	579
		247	118	237	313	405	428		082	142	584
		258	126	244	332	420	447		083	144	585
PHYM		024	011	054	036	072	048	079		159	062
		043	017	087	050	085	073	116		178	105
		043	017	093	061	095	076	119		180	111
SOMA		045	015	063	078	083	069	129	159		129
		092	026	106	110	099	096	176	162		194
		093	028	107	111	101	096	176	163		194
SF		284	112	282	253	216	348	579	062	129	
		288	112	301	267	273	349	607	089	175	
		290	112	303	267	285	349	607	089	176	
$L_A$		185	080	240	162	079	256	131	025	058	153
		185	080	241	162	080	256	131	025	058	153
		185	080	241	162	080	256	131	025	058	153
$D_{10}$		132	053	158	122	060	198	103	016	039	101
		132	054	172	123	063	199	103	016	040	102
		135	054	173	125	063	209	103	016	040	102
$H_R$		220	081	226	134	068	315	145	022	045	170
		221	082	250	158	085	320	149	028	054	172
		222	083	255	162	085	320	149	029	054	173

Key:

a. independent variable

b. dependent variable

Table A.4-11a: Measure of Certainty for Linear (l), Quadratic (q) and Cubic (k) Relations of 4 Stimulus Variables, as well as of Moderator and Reaction Variables on a Tertiary Data Level

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Unabhängige Variable		Abhängige Variable:									
		R1U	R1	R2	R3	R4	M1	M2	M3	M4	M5
L <sub>A</sub>	l	278	198	016	078	080	008	007	021	000	006
	q	278	198	016	079	089	008	007	021	001	007
	k	278	198	016	079	089	008	007	021	003	007
D <sub>10</sub>		197	128	010	053	076	012	002	022	001	004
		198	134	010	055	077	012	003	030	004	004
		200	135	010	056	077	013	003	034	005	005
H <sub>R</sub>		280	207	010	088	088	013	007	018	000	000
		297	216	018	088	099	017	007	018	002	008
		299	220	018	088	099	017	009	038	002	009
H <sub>81</sub>		302	218	012	094	097	011	008	021	000	002
		305	220	020	098	099	011	008	022	004	007
		306	224	020	103	101	012	009	036	004	007
M1		002	000	011	002	020					
		005	004	018	003	020					
		011	006	022	003	023					
M2		287	272	024	006	118					
		290	272	043	006	119					
		291	272	046	009	120					
M3		042	032	010	007	010					
		043	032	010	007	013					
		047	038	013	010	013					
M4		008	000	003	004	012					
		012	005	005	005	013					
		016	014	008	006	015					
M5		015	001	000	003	027					
		015	001	001	003	028					
		040	021	002	008	037					

Key:

- a. independent variable
- b. dependent variable

Table A.4-11b: Measure of Certainty for Linear (l), Quadratic (q) and Cubic (k) Relations of 4 Stimulus Variables, as well as of Moderator and Reaction Variables on a Data Level /77

a. abhängige Variable:		b. unabhängige Variable:					R4	M1	M2	M3	M4	M5
		R1U	R1	R2	R3							
LA	l	278	198	016	078	089	008	007	021	000	006	
	q	284	198	028	078	095	008	011	022	001	008	
	k	284	199	046	078	097	008	011	024	001	010	
D10		197	128	010	053	076	012	002	022	001	004	
		203	128	012	054	085	012	005	030	001	006	
		203	129	026	054	088	013	006	033	002	009	
HR		280	207	010	088	088	013	007	018	000	000	
		319	219	016	089	099	013	008	024	001	005	
		320	221	037	089	100	014	009	029	004	007	
H81		302	218	012	094	097	011	008	021	000	002	
		331	225	024	094	108	011	010	025	001	006	
		331	228	043	094	109	011	011	029	002	008	
M1		002	000	011	002	020						
		002	002	013	005	027						
		005	003	017	005	031						
M2		287	272	024	006	118						
		291	275	044	006	119						
		296	275	058	027	126						
M3		042	032	010	007	010						
		042	048	022	007	017						
		048	049	022	008	019						
M4		008	000	003	004	012						
		008	000	008	006	015						
		008	000	008	007	015						
M5		015	001	000	003	027						
		015	004	000	014	028						
		019	006	003	020	034						

Key:

a. dependent variable

b. independent variable

Table A.4-12: A Comparison of Pairs of the Covariant Matrices of Various Variable Sets in the Four Sets /78

Column (1): 23 Moderator Variables on a Secondary Data Level  
(for more detailed information see 4.6.4.2)  
Column (2): 11 Reaction Variables on a Secondary Data Level  
(for more detailed information see 4.6.4.3)  
Column (3): Noise Level of Fly-Overs  $\bar{L}_A$ , Duration of Fly-Overs  $D_{10}$  and Frequency of Fly-Overs  $H_{81}$  and 5 Moderator Variables and 4 Reaction Variables on a Tertiary Data Level

a						
Vergleich der Sets:	chi <sup>2</sup> (1)		chi <sup>2</sup> (2)		chi <sup>2</sup> (3)	
		p <		p <		p <
b						
A und B	403.4	.001	173.2	.001	461.5	.001
A und C	387.3	.001	309.6	.001	386.1	.001
A und D	355.9	.001	436.2	.001	1319.0	.001
B und C	418.4	.001	167.8	.001	459.2	.001
B und D	459.7	.001	243.3	.001	1160.8	.001
C und D	380.4	.001	101.2	.004	832.8	.001
df	276		66		78	

Key:

a. comparison of the sets

b. and

Table A.4-13: Average Value (M) and Scattering (S) of Several Reaction Variables per Cluster

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Cluster Nr.	akustische Kennwerte			Reaktionsvariablen													N
	L <sub>A</sub>	H <sub>R</sub>	FBI		RIU	HFL	LFL	EFL	BDG	PHF FL	SCHM FL	KOMM FL	RUHE FL	PHYM	SOMA	SF	
01	99	100.0	91	M	-0.23	3.95	4.71	0.48	2.51	3.22	1.43	3.61	2.53	0.29	0.38	3.32	21
				s	0.99	1.24	0.56	0.51	0.94	1.47	0.62	1.07	1.47	0.56	1.16	1.32	
02	96	100.0	90	M	-0.39	3.80	4.75	0.50	2.45	3.18	1.38	4.11	3.17	0.20	0.35	3.56	20
				s	0.67	1.28	0.55	0.51	1.07	1.42	0.76	0.79	1.05	0.52	0.59	0.99	
03	99	100.0	92	M	-0.50	4.06	4.88	0.44	2.49	2.85	1.82	4.11	2.99	0.38	0.25	3.69	16
				s	0.95	1.48	0.34	0.51	1.04	1.37	1.38	0.77	1.27	0.72	0.77	1.06	
04	100	100.0	92	M	-0.76	4.48	4.65	0.52	2.32	3.83	2.15	4.16	3.37	0.30	1.17	3.69	23
				s	0.97	0.85	0.65	0.51	1.01	1.05	1.30	0.79	1.37	0.70	0.98	1.71	
05	92	95.0	83	M	-0.13	4.09	4.59	0.68	2.84	2.98	1.32	3.60	2.36	0.45	0.45	3.51	22
				s	0.72	1.06	0.96	0.48	1.06	1.33	0.63	1.22	1.08	0.60	0.86	1.05	
06	99	100.0	92	M	-0.90	4.44	4.94	0.22	2.22	3.89	1.61	4.25	3.11	0.78	0.94	4.13	18
				s	0.86	1.04	0.24	0.43	0.85	1.43	0.98	0.65	1.26	1.17	0.73	1.09	
07	98	97.5	91	M	-0.85	4.52	4.88	0.32	2.03	3.88	1.64	4.15	3.38	0.44	0.48	4.16	25
				s	0.71	0.87	0.33	0.48	0.85	1.28	0.98	0.89	1.07	0.58	0.65	0.85	
08	96	97.5	88	M	-0.51	4.30	4.83	0.61	2.45	3.52	1.85	4.20	2.90	0.48	0.43	3.51	23
				s	1.01	0.93	0.49	0.50	1.03	1.47	1.30	0.91	1.39	0.79	0.84	1.20	
09	87	65.0	74	M	0.38	3.35	4.40	0.80	3.38	2.23	1.10	2.81	2.26	0.20	0.15	2.93	20
				s	0.91	1.35	0.88	0.41	0.96	1.38	0.35	1.09	1.25	0.41	0.37	1.29	
10	97	97.5	90	M	-0.66	4.33	5.00	0.67	2.33	3.50	1.60	4.43	3.16	0.27	0.67	4.12	15
				s	0.75	1.23	0.00	0.49	0.87	1.38	1.12	0.65	1.38	0.59	1.05	0.65	
11	91	92.5	83	M	-0.52	4.13	4.78	0.52	2.76	3.18	1.72	3.90	3.24	0.26	0.48	3.93	23
				s	0.70	0.87	0.42	0.51	0.98	1.15	1.01	0.94	1.01	0.54	0.79	0.82	
12	85	57.5	72	M	-0.13	3.48	4.24	0.62	2.83	2.79	1.48	3.44	2.83	0.33	0.43	3.65	21
				s	1.08	1.54	1.14	0.50	1.09	1.49	1.16	1.34	1.35	0.73	0.93	1.08	
13	95	95.0	87	M	-0.61	4.35	4.90	0.55	2.46	3.25	1.93	4.05	2.99	0.55	0.75	3.70	20
				s	1.00	0.88	0.31	0.51	0.93	1.17	1.14	0.96	1.37	0.76	1.02	1.18	
14	93	90.0	84	M	-0.39	4.10	4.57	0.67	3.08	3.22	2.07	3.93	3.09	0.29	0.48	3.61	21
				s	0.93	1.00	0.68	0.48	0.98	1.31	1.24	0.97	1.24	0.46	0.87	0.99	

Key:

a. cluster no.

b. acoustical characteristics

c. reaction variables

Table A.4-13: Continuation

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Nr.	L <sub>A</sub>	H <sub>R</sub>	FBI		RIU	HFL	LFL	EFL	BDG	PHF FL	SCHM FL	KOMM FL	RUHE FL	PHYM	SOMA	SF	N
15	90	87.5	81	M	-0.19	3.94	4.50	0.61	3.04	2.59	1.72	3.75	2.76	0.17	0.67	3.46	18
				s	1.01	1.26	0.71	0.50	0.97	1.42	0.86	1.29	1.23	0.51	1.33	1.13	
16	90	92.5	81	M	-0.46	4.23	4.86	0.55	2.35	3.55	1.71	3.93	2.82	0.41	0.41	3.44	22
				s	0.84	1.02	0.35	0.51	0.94	1.32	1.03	1.03	1.19	0.67	0.67	1.13	
17	91	90.0	84	M	-0.12	3.95	4.52	0.57	3.55	3.31	1.45	3.89	2.69	0.24	0.19	3.39	21
				s	0.75	1.28	0.81	0.51	0.60	1.34	0.74	0.86	0.96	0.44	0.51	1.16	
18	86	30.0	66	M	0.74	2.92	4.72	1.00	4.00	2.18	1.08	2.01	1.68	0.04	0.00	2.64	25
				s	0.46	1.22	0.54	0.00	0.73	1.38	0.24	1.17	0.87	0.20	0.00	0.67	
19	91	80.0	80	M	-0.09	3.96	4.96	0.65	3.09	2.48	1.13	3.37	2.60	0.17	0.48	3.54	23
				s	0.65	1.11	0.21	0.49	0.71	1.30	0.27	1.08	1.27	0.39	0.67	1.04	
20	88	80.0	78	M	0.25	3.88	4.47	0.76	3.46	2.47	1.27	3.30	2.07	0.29	0.18	2.99	17
				s	0.74	1.11	0.72	0.44	1.01	1.07	0.51	1.15	0.99	0.59	0.53	1.10	
21	87	77.5	76	M	0.04	3.86	4.57	0.76	3.57	3.31	1.26	3.57	2.65	0.10	0.14	3.32	21
				s	0.81	1.06	0.68	0.44	0.74	1.21	0.72	1.17	1.27	0.30	0.48	1.11	
22	88	77.5	77	M	0.45	3.14	4.62	0.76	3.28	1.79	1.03	2.57	1.94	0.05	0.24	3.00	21
				s	0.72	1.11	0.67	0.44	0.66	1.12	0.11	1.26	1.17	0.22	0.89	0.92	
23	84	30.0	65	M	0.93	2.63	4.21	0.92	4.13	2.67	1.00	2.29	1.39	0.08	0.08	2.04	24
				s	0.47	1.21	0.93	0.28	0.84	1.41	0.00	1.00	0.78	0.28	0.28	0.73	
24	86	75.0	74	M	0.48	3.47	4.42	0.95	4.11	2.34	1.08	2.94	2.28	0.11	0.26	2.84	19
				s	0.54	1.47	0.77	0.23	0.74	1.15	0.25	1.27	1.15	0.32	1.15	0.89	
25	82	27.5	63	M	0.76	2.31	4.44	1.00	4.31	1.53	1.50	2.17	2.01	0.38	0.31	2.70	16
				s	0.45	0.87	0.89	0.00	0.47	0.74	0.00	1.03	0.84	1.09	1.25	0.93	
26	86	77.5	76	M	0.09	3.74	4.61	0.87	3.04	2.37	1.48	3.60	2.72	0.22	0.13	2.95	23
				s	0.67	1.36	0.66	0.34	0.89	1.30	0.99	0.97	1.18	0.42	0.46	1.04	
27	84	72.5	73	M	0.14	3.33	4.57	0.90	2.12	2.17	1.19	3.17	2.34	0.48	0.29	2.98	21
				s	0.65	1.20	0.75	0.30	0.66	1.18	0.54	1.29	1.26	0.98	1.10	1.02	
28	89	85.0	80	M	0.28	4.25	4.65	0.65	3.39	3.05	1.60	3.48	2.96	0.50	0.70	3.51	20
				s	0.88	1.02	0.67	0.49	0.89	1.40	0.76	0.87	1.25	0.95	0.92	1.12	
29	84	72.5	72	M	0.58	3.24	4.62	0.90	4.64	2.05	1.03	2.93	2.04	0.00	0.05	3.05	21
				s	0.39	0.94	0.50	0.30	0.56	0.79	0.11	0.64	0.88	0.00	0.22	0.67	
30	81	25.0	59	M	0.85	2.60	4.05	0.95	4.01	2.08	1.35	1.88	1.79	0.20	0.15	2.24	20
				s	0.87	1.19	1.05	0.22	0.75	1.12	0.69	1.14	1.00	0.52	0.67	0.89	
31	81	55.0	67	M	0.92	2.50	4.10	0.95	3.75	1.78	1.03	2.24	1.45	0.05	0.00	2.45	20
				s	0.44	0.95	0.97	0.22	0.83	1.16	0.11	1.16	0.45	0.22	0.00	0.85	

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Table A.4-14: Standard Correlation between Three Stimulus Variables, on the One Hand, and Four Reaction Variables, on the Other Hand, for the Social-Scientific Sample, for Two Random Samples (split 1 and 2) formed from this, as well as for the Interdisciplinary Random Sample

a Stichprobe	b Sozialwiss. Stichprobe	Split 1	Split 2	c Interdisz. Stichprobe
N	N=660	N=330	N=330	N=357
d kanon. Korr.	.577	.569	.599	.598

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e kanon. Ladungen		(1)	(2)	(3)	(4)	
für:						
L <sub>A</sub>	959	885	968	969	886	909
D <sub>10</sub>	-965	-895	-974	-973	-893	-916
H <sub>R</sub>	994	954	997	997	953	966
R <sub>1</sub>	-860	-926	-732	-766	-955	-792
R <sub>2</sub>	518	484	356	548	654	621
R <sub>3</sub>	-481	-264	-587	-641	-318	-547
R <sub>4</sub>	859	766	875	925	821	895

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(1) Daten aus Split 1 und Gewichte aus Split 1  
(2) Daten aus Split 1 und Gewichte aus Split 2  
(3) Daten aus Split 2 und Gewichte aus Split 2  
(4) Daten aus Split 2 und Gewichte aus Split 1

- (1) data from split 1 and weights from split 1  
 (2) data from split 1 and weights from split 2  
 (3) data from split 2 and weights from split 2  
 (4) data from split 2 and weights from split 1

Key:

a. sample  
 b. social-scientific sample  
 c. interdisciplinary sample

d. standard correlation  
 e. standard weighting for

Table A.4-15: Standard Correlation between Moderator and Reaction Variables on a Tertiary Data Level for the Social-Scientific Sample, for Two Random Samples formed from this (split 1 and 2), as well as for the Interdisciplinary Random Sample

a Stichprobe	b Sozialwiss. Stichprobe N=660	Split 1 N=330	Split 2 N=330	c Interdisz. Stichprobe N=357
d <sup>N</sup> anon. Kor.	.607	.583	.637	.564

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e <sup>N</sup> anon. Ladungen	(1)	(2)	(3)	(4)		
x <sub>1</sub>	-215	-346	-200	-126	-274	-187
x <sub>2</sub>	969	970	977	953	949	942
x <sub>3</sub>	-482	-479	-517	-474	-435	-400
x <sub>4</sub>	008	-008	-088	036	115	-145
x <sub>5</sub>	-271	-262	-264	-267	-250	-207
x <sub>6</sub>	988	970	987	996	960	978
x <sub>7</sub>	-434	-261	-428	-585	-445	-533
x <sub>8</sub>	105	093	036	124	163	-020
x <sub>9</sub>	-783	-834	-707	-751	-861	-741

---

1	Daten aus Split 1 und Gewichte aus Split 1
2	Daten aus Split 1 und Gewichte aus Split 2
3	Daten aus Split 2 und Gewichte aus Split 2
4	Daten aus Split 2 und Gewichte aus Split 1

- (1) data from split 1 and weights from split 1  
 (2) data from split 1 and weights from split 2  
 (3) data from split 2 and weights from split 2  
 (4) data from split 2 and weights from split 1

Key: See Key for Table A.4-14

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Table A.4-16: Standard Correlation between Three Stimulus Variables and Five Moderator Variables, on the One Hand, and Four Reaction Variables, on the Other Hand, for the Social-Scientific Sample, for Two Random Samples formed from this (split 1 and 2), as well as for the Interdisciplinary Sample

a Stichprobe	b Sozialwiss. Stichprobe				c Interdisz. Stichprobe	
	N	Split 1	Split 2		N	
d kanon. Kor.	N=660	N=330	N=330		N=357	
	.777	.764	.796		.773	
e kanon. Ladungen für		(1)	(2)	(3)	(4)	
L <sub>A</sub>	-546	-563	-497	-519	-594	-588
D <sub>10</sub>	471	506	407	429	540	530
H <sub>R</sub>	-587	-619	-536	-545	-639	-627
M <sub>1</sub>	-042	-145	016	041	-111	-032
M <sub>2</sub>	930	906	919	929	919	832
M <sub>3</sub>	-314	-357	-297	-263	-341	-275
M <sub>4</sub>	127	078	020	157	222	-023
M <sub>5</sub>	-144	-118	-029	-163	-260	-115
R <sub>1</sub>	944	952	912	935	964	915
R <sub>2</sub>	-491	-385	-423	-604	-564	-594
R <sub>3</sub>	296	196	306	382	274	297
R <sub>4</sub>	-833	-808	-819	-868	-850	-869
(1) Daten aus Split 1 und Gewichte aus Split 1						
(2) Daten aus Split 1 und Gewichte aus Split 2						
(3) Daten aus Split 2 und Gewichte aus Split 2						
(4) Daten aus Split 2 und Gewichte aus Split 1						

- (1) data from split 1 and weights from split 1  
 (2) data from split 1 and weights from split 2  
 (3) data from split 2 and weights from split 2  
 (4) data from split 2 and weights from split 1

Key: See Key for Table A.4-14

Table A.4-17: Standard Correlation between the Measure of Aircraft Noise FB1 and Five Moderator Variables, on One Hand, and Four Reaction Variables, on the Other Hand, for the Social-Scientific Sample, for Two Random Samples formed from this (split 1 and 2), as well as for the Interdisciplinary Sample

<sup>a</sup> Stichprobe	<sup>b</sup> Sozialwiss. Stichprobe	Split 1	Split 2	<sup>c</sup> Interdisz. Stichprobe		
N	N=660	N=330	N=330	N=357		
kanon. Kor.	.779	.761	.798	.771		
<hr/>						
<sup>c</sup> kanon. Ladungen						
für:		(1)	(2)	(3)	(4)	
FB1	-810	-785	-782	-826	-836	-807
M1	-015	-070	006	032	-043	046
M2	849	830	835	857	860	784
M3	-267	-268	-283	-259	-246	-178
M4	130	110	022	141	230	043
M5	-113	-063	-029	-154	-184	-044
R1	945	951	915	936	964	920
R2	-490	-394	-413	-595	-572	-607
R3	294	201	299	375	280	292
R4	-833	-805	-823	-871	-848	-860
<hr/>						
(1) Daten aus Split 1 und Gewichte aus Split 1						
(2) Daten aus Split 1 und Gewichte aus Split 2						
(3) Daten aus Split 2 und Gewichte aus Split 2						
(4) Daten aus Split 2 und Gewichte aus Split 1						

- (1) data from split 1 and weights from split 1
- (2) data from split 1 and weights from split 2
- (3) data from split 2 and weights from split 2
- (4) data from split 2 and weights from split 1

Key: See Key for Table A.4-14

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Table A.5-63: Discrimination analysis between 4 cluster sets with differing exposures to aircraft noise, applying the 31 potential aircraft noise reaction variables.

Table A.5-64: Discrimination analysis between 4 cluster sets with differing exposure to aircraft noise, applying the 31 potential aircraft noise reaction noise variables plus moderators.

Table A.5-65: Discrimination analysis between 2 groups of persons with differing "global reaction S", applying the 31 potential aircraft noise reaction variables plus moderators.

Table A.5-66: Discrimination analysis between 2 groups of persons with differing global reaction S, applying the 31 potential aircraft noise reaction variables plus moderators.

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Figure A.8-1: Path model III with residual variables.

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Table A.8-1: List of the Computer Programs Employed

- 
- (1) Program system "ZÄHL" of the computer center in Hamburg
  - (2) Algol special programs developed by C. Laemmerhold (differentiation tests for two groups; analysis of factors with orthogonal and oblique-angled rotation; numerous ad hoc programs during the preliminary study)
  - (3) Fortran program system developed by D. J. Veldmann (Fortran programming for the behavioral sciences; New York, 1967) adapted by R. Guski, especially multiple and standard correlation, analysis of factors, discrimination analyses; compare also appendix, A.5.6, Table A.5-81
  - (4) Fortran special programs developed by D. Freitag (determination of factor scores; adaptation of factor matrices)
  - (5) Fortran special programs developed by R. Guski (regression transformation, composite scores, path analysis); compare A.5.6, Table A.5-81
  - (6) Fortran programs, ad hoc for testing, recoding, transforming, connecting and describing data, developed by R. Guski and B. Rohrmann
- 

All calculations were carried out in the computer center of the university in Hamburg (equipment: Telefunken TR 4, and later TR 440); also in the large computer center for sciences, Berlin (equipment: TR 440)

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#### A.8.3.4 Analyses on the Stability of Multiple Data Structures

- (1) In section 8.3.4 of the main report the division of the I sample in two random splits X, Y is mentioned. Two separate intercorrelation matrices can be calculated on this basis. A summary of these matrices for 13 important variables is found in Table A.8-2; the correlations of this and several further variables to the measure of aircraft noise "FB1" and to the global reaction S were already shown in Table 8-13 in the main report.
- (2) An analysis of the factors of the data set "D91" (with 86 variables, compare A.8.4.3.1) was also calculated separately according to splits. In the case of a solution with 16 factors each (mutual factors applied as multiple correlation) 10 factors prove to be stable in the split; these correspond to the factors 1 to 6, 8 to 10 and 13 of the solution explained in A.8.4.3.1, Table A.8-6, using the entire sample. When the two split solutions are rotated about one another, the following cosine values result for the angle between the coordinate factors: .98, .90, .93, .91, .83, .74, .88, .79, .88 (for the unstable factors: between .54 and .73).

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- (3) Some information gained on methods, resulting in the analysis of 56 items related to instability (compare A.8.4.2.2), is briefly mentioned here: the analysis of factors of the 56 items provided the result that all items load over .25 on the first unrotated factor and that 6 factors can be interpreted after a varimax rotation. Two types of secondary variables were then defined: factor scores (FS) and summated rating scores (SRS) from a single factor of the coordinated item in each case, furthermore, a global value as the first factor score from the unrotated solution and a global value as summated rating score of all items.

While the FS are correlated to zero according to definition, the 6 SRS are intercorrelated between .30 and .50 with the global value for each case, the 6 FS are not so highly correlated (.24 to .68) as the 6 SRS (.51 to .83). /203

In the correlation with external variables (e.g. reaction to aircraft noise) it hardly plays a role, whether the instability variables are defined as FS or as SRS. Overlapping factor analyses with the FS block of the instability variables and other variable blocks, also defined as FS, provide solutions which are difficult to interpret.

The conclusion for subsequent evaluations was that factor scores are preferable in principle (especially because of the problem of multicollinearity); however, summated rating scores appear to be just as valid (and recommendable, when the statistical requirements for FS have been impaired or when each item should be included in only 1 secondary variable).

- (4) In 8.3.4 of the main report the internal overcrossing test for factor scores was mentioned. This is explained using the example of the instability analyses. A 6 factor solution has been determined for the entire sample as well as for the splits X and Y (compare above). Since factor scores result from the connection of raw data matrix and load number matrix, the 6 FS for a subject in split X could be determined on the basis of the raw values as well as the loads of an analysis in sample X or an analysis in sample Y or one of the total sample ( $FS(X_X)$ ,  $FS(Y_Y)$ ,  $FS(X_G)$ ); this can be applied analogously to subjects in split Y. The instability factor 3 FS per subject can be intercorrelated (with optimal consistency,  $r = 1$ ). The correlations between these are 6  $FS(X_X)$  and  $FS(X_Y)$ , free of a "part-hole" effect; they may be applied for evaluation of the stability of the multiple data structure and serve as an aid in decisions on the definition of secondary variables.

In the case of the instability variables it was demonstrated that the above-mentioned cross-over test only results in correlations over .90 (between homologous FS) in all factors, when items with weak loads were selected for "their" factor (approx.  $a^2$  below .20) (in this case approx. 1/4 of the items).

Table A.8-2: Intercorrelations in Random Splits (X/Y) of the I Sample /204

Var. -Nr.	3	6	7	11	12	18	19	33	61	63	65	66	86
3	-	-.28	.22	.29	.22	.11	.09	.22	-.00	-.09	-.08	-.06	-.23*
	-	-.19	.19	.21	.24	.03	.06	.26	-.14	-.15	-.01	-.03	.01
6	-.28	-	-.09	-.15	-.15	.01	-.18	-.36	-.07	.01	.02	.00	.15
	-.19	-	-.04	-.11	-.04	-.02	-.23	-.36	-.01	.08	.08	.04	.18
7	.22	-.09	-	-.00	.06	.03	.12	-.06	.08	.04	.04	-.01	-.04
	.19	-.04	-	.11	.04	-.19	.10	.01	-.16	-.09	-.06	-.04	.06
11	.29	-.15	-.00	-	.16	-.02	.52	.45	.05	-.18	.17	.17	-.14
	.21	-.11	.11	-	.29	.23	.58	.41	.13	-.21	.15	.16	-.09
12	.22	-.15	.06	.16	-	.12	-.00	.27	.00	-.12	-.20	-.25	-.30*
	.24	-.04	.04	.29	-	.20	.02	.14	.09	-.24	-.27	-.22	-.10
18	.11	.01	.03	-.02	.12	-	-.16	.15	.03	-.13	.01	-.07	-.07
	.03	-.02	-.19	.23	.20	-	.11	.24	-.12	-.15	.07	.04	-.11
19	.09	-.18	.12	.52	-.00	-.16	-	.10*	.04	-.15	.33	.31	.01
	.06	-.23	.10	.58	.02	.11	-	.30*	.12	-.16	.36	.39	-.06
33	.22	-.36	-.06	.45	.27	.15	.10*	-	.22	-.12	-.06	-.07	-.18
	.26	-.36	.01	.41	.14	.24	.30*	-	.01	-.30	.11	.16	-.07
61	-.00	-.07	.08	.05	.00	.03	.04	.22	-	-.10	-.04	-.01	-.10
	-.14	-.01	-.16	.13	.09	-.12	.12	.01	-	-.10	-.12	-.05	.01
63	.09	.01	.04	-.18	-.12	-.13	-.15	-.12	-.10	-	.02	.04	-.21
	-.15	.08	-.09	-.21	-.24	-.15	-.16	-.30	-.10	-	-.03	-.02	.01
65	-.08	.02	.04	.17	-.20	.01	.33	-.06	-.04	.02	-	.81	.15
	-.01	.08	-.06	.15	-.27	.07	.36	.11	-.12	-.03	-	.72	.15
66	-.06	.00	-.01	.17	-.25	-.07	.31	-.07	-.01	.04	.81	-	.14
	-.03	.04	-.04	.16	-.22	.04	.39	.16	-.05	-.02	.72	-	.16
86	-.23*	.15	-.04	-.14	-.30*	-.07	.01	-.18	-.10	-.21	.15	.14	-
	.01	.18	.06	-.09	-.10	-.11	-.06	-.07	.01	.01	.15	.16	-

For variable names see Table 8-6 (main report). For further correlations in random splits see Table 8-13.

\* = significant difference (alpha < 5%).

Key:

a. variable number

#### A.8.4.2.2 Analysis of Instability Items expressed Verbally

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In the following the instability variables from Table 8-4 (main report) are explained. In the analyses of the organizational section, 108 items of this area of subject matter (in the broadest sense) has been processed, stemming from the questionnaire portions of the social-scientific, the psychological and the medical experimental program (compare A.4.2.3, A.5.3.3.3, A.7.2.2), with the intention of establishing characteristic values, overlapping from one section to the next, of the

verbally expressed psychological and vegetative instability versus stability.

Approximately half of the items were disregarded, because they

- have no variance and/or extreme distributions or average values, and/or
- demonstrate very low levels of covariance (communality in the factor analysis below .10), and/or
- definitely do not pertain only to the context of instability.

From the remaining items, 6 interdisciplinary instability variables were then defined on the basis of factor analyses.

Discussions among the sections, however, resulted in the agreement that the secondary variables defined by the sections supplying the data would also be employed in the interdisciplinary analyses to as great an extent as possible (also to have a better basis for comparison; compare 8.3.3 in the main report).

For the items from the social-scientific portion of the study, the sum variables (hypochondria, instability) were therefore employed; modified characteristic values specific to the sections were determined for the remaining items, while establishing new factors for the medical items. The resulting instability variables are explained in the two following tables; as the Table 8-4 in the main report demonstrates, they were subsequently processed to more global values.

Table A.8-3: Instability Variables from the Psychological Data Set

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Items on "mood" ( m = 8 ):

I am often in a bad mood and unsatisfied/it is easy to put me in a bad mood/I often feel depressed/my mood often changes with or without an apparent reason/I am often unsatisfied/I often simply feel miserable/I sometimes alternate between feeling happy and sad without reason/sometimes I have bursts of energy and at other times have no pep.

---

Items on "nervousness" (m = 3):

I am rather easily irritated/I become quickly angry/I think that I am especially nervous and tense.

---

Items on "physical well-being" (m = 4):

(momentary, subjective) performance capability/mood/pep/capacity to concentrate (from the questionnaire on moods in the pretest).

---

The 3 variables have been defined as summated rating scores (SRS; compare Table 8-2).

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Table A.8-4: Instability Variables from the Medical Data Set

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Items on "circulatory problems, etc." (m = 4):

Do you tend to get a chill, even when it is not cold?/Do your fingers become cold and turn blue when it is cold?/Do you tend to get cold feet?/Do you get a chill easily?

---

Items on "stomach problems, etc." (m = 5):

Do you often have acid indigestion or heartburn?/Do you often have to burp (belch)?/(Positive answer to one or several of 4 items, concerned with stomach problems)/Do you sometimes have trouble breathing without having done any strenuous work?/Do you have chest pains? and/or have you had chest pains in the area around the heart in recent years?

---

Items on "problems sleeping, etc." (m = 6):

Do you have difficulty getting to sleep?/Do you have difficulty sleeping an entire night?/Are you nervous?/Do you get headaches?/Attacks of dizziness?/Do you have any regular medication?

---

The 3 variables have been defined as summated rating scores (SRS). All items are from the medical case history.

The calculated items, as well as several symptom blocks, were previously recoded to 0/1 data.

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## A.8.4.3.0

Table A.8-5: Interrelation Matrix of the Variable Set "D91"

Designation, as well as type of scale, average value and standard deviation of the variables, are found in Tables 8-3 and 8-6 of the main report.

	1	2	3	4	5	6	7	8	9	10
1	1.00	-0.08	-0.02	0.12	0.16*	0.00	-0.07	-0.09	0.02	0.12
2	-0.08	1.00	-0.19*	0.00	-0.11	-0.14*	-0.01	0.10	0.11	-0.11
3	-0.02	-0.19*	1.00	0.12	-0.00	-0.24*	0.21*	-0.07	0.17*	-0.07
4	0.12	0.00	0.12	1.00	0.07	-0.17*	0.05	-0.19*	0.06	0.16*
5	0.16*	-0.11	-0.00	0.07	1.00	-0.03	-0.03	0.18*	-0.06	0.10
6	0.00	-0.14*	-0.24*	-0.17*	-0.03	1.00	-0.07	-0.08	-0.19*	0.16*
7	-0.07	-0.01	0.21*	0.05	-0.03	-0.07	1.00	0.04	-0.01	0.03
8	-0.09	0.10	-0.07	-0.19*	0.18*	-0.08	0.04	1.00	0.03	-0.11
9	0.02	0.11	0.17*	0.06	-0.06	-0.19*	-0.01	0.03	1.00	-0.18*
10	0.12	-0.11	-0.07	0.16*	0.10	0.16*	0.03	-0.11	-0.18*	1.00
11	0.03	-0.40*	0.25*	0.05	0.28*	-0.13	0.05	0.12	-0.00	0.03
12	0.02	-0.21*	0.23*	-0.05	0.01	-0.10	0.05	-0.04	0.05	-0.05
13	0.34*	-0.07	0.05	-0.02	0.16*	-0.05	-0.09	0.16*	0.02	0.07
14	0.01	-0.07	0.22*	-0.06	0.04	-0.03	0.05	-0.00	0.02	-0.02
15	0.05	-0.17*	-0.06	0.05	0.14*	-0.01	-0.04	0.15*	-0.15*	-0.04
16	0.02	-0.28*	0.04	0.02	0.14*	0.00	0.01	0.08	-0.14*	0.00
17	-0.03	0.02	-0.07	0.27*	-0.14*	-0.01	-0.12	-0.17*	-0.07	0.00
18	0.11	-0.27*	0.07	0.10	0.12	-0.01	-0.09	-0.06	-0.01	0.02
19	0.02	-0.14*	0.08	0.02	0.36*	-0.21*	0.11	0.17*	-0.15*	-0.00
20	-0.10	-0.06	0.22*	0.12	-0.02	-0.17*	0.05	-0.09	0.09	-0.11
21	0.41*	0.04	0.05	0.12	0.18*	-0.15*	-0.05	0.06	-0.04	-0.02
22	0.28*	0.07	0.07	-0.00	0.07	-0.08	0.01	0.07	0.06	-0.01
23	-0.36*	-0.02	-0.09	-0.12	-0.19*	0.35*	0.04	-0.07	-0.11	0.11
24	-0.48*	0.01	-0.17*	-0.25*	-0.11	0.26*	0.04	0.09	-0.11	0.19*
25	0.42*	-0.11	0.11	0.21*	0.20*	-0.17*	0.06	-0.02	0.06	-0.03
26	0.27*	-0.07	0.26*	0.23*	0.03	-0.20*	0.02	-0.01	0.10	-0.05
27	0.54*	0.00	0.11	0.15*	0.14*	-0.18*	-0.05	-0.04	0.07	-0.02
28	0.39*	0.03	0.17*	0.30*	0.12	-0.44*	-0.04	0.02	0.13	-0.12
29	0.23*	0.01	0.07	0.18*	0.10	-0.18*	-0.04	0.15*	0.07	-0.08
30	0.29*	0.13	0.00	0.11	0.23*	-0.22*	-0.06	0.16*	0.09	-0.12
31	0.39*	0.08	0.18*	0.20*	0.17*	-0.46*	-0.02	0.10	0.22*	-0.20*
32	-0.54*	-0.03	-0.19*	-0.27*	-0.20*	0.40*	0.04	-0.05	-0.15*	0.13
33	0.16*	-0.23*	0.23*	0.07	0.16*	-0.36*	-0.02	0.09	0.13	-0.05
34	-0.08	0.28*	-0.09	-0.06	-0.04	-0.04	0.03	0.03	0.00	-0.05
35	-0.03	-0.02	-0.12	-0.07	-0.03	0.12	0.03	0.07	-0.06	0.03
36	0.06	-0.08	-0.01	0.03	0.07	-0.03	0.02	-0.05	-0.02	0.11
37	0.05	-0.18*	0.03	-0.01	0.02	-0.04	0.08	0.00	-0.03	0.06
38	0.03	-0.12	0.09	-0.06	0.13	-0.10	0.06	0.10	-0.14	-0.10
39	0.02	-0.17*	0.06	-0.10	0.10	0.03	0.05	0.07	-0.08	-0.12
40	0.06	-0.07	-0.01	-0.09	0.03	0.02	0.0	-0.02	-0.03	-0.05
41	0.04	-0.05	0.01	-0.08	0.07	-0.01	0.01	0.01	0.03	-0.06
42	-0.01	0.12	-0.09	0.05	-0.12	0.09	-0.11	-0.08	0.11	0.10
43	-0.07	0.20*	-0.09	0.08	-0.15*	-0.01	-0.08	-0.05	0.07	0.08
44	0.01	-0.25*	0.17*	-0.02	0.06	-0.04	-0.01	-0.04	0.10	-0.03
45	0.06	-0.21*	0.22*	-0.05	0.02	-0.13	-0.02	-0.00	0.13	-0.08
46	-0.05	0.00	-0.01	0.02	-0.10	0.16*	0.03	0.06	-0.09	0.03
47	0.15*	-0.10	-0.01	-0.01	0.11	0.04	0.02	0.01	-0.14*	0.07
48	-0.03	0.03	-0.03	-0.01	0.04	-0.10	-0.04	0.04	0.04	0.02
49	0.08	0.05	-0.06	-0.00	-0.07	-0.05	-0.03	0.05	0.07	0.05
50	-0.04	-0.08	0.05	-0.03	-0.03	0.07	0.04	-0.07	0.01	-0.02
51	-0.02	0.00	-0.07	0.02	-0.07	0.06	0.05	0.07	-0.06	0.01
52	-0.07	0.03	-0.11	0.07	-0.06	-0.02	-0.11	0.02	0.04	-0.01
53	0.02	-0.06	0.08	-0.03	0.07	0.01	-0.04	-0.01	0.02	0.03



Table A.8-5: Continuation

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	1	2	3	4	5	6	7	8	9	10
54	0.05	-0.02	-0.01	-0.01	0.05	-0.02	0.02	-0.07	0.01	-0.03
55	0.07	0.12	-0.09	-0.05	0.02	0.07	-0.10	-0.02	0.01	0.09
56	-0.06	0.02	-0.01	-0.01	0.06	-0.05	0.04	0.10	-0.10	0.06
57	0.01	-0.01	0.0	0.04	0.14*	-0.05	0.03	0.01	0.07	0.04
58	-0.12	-0.00	-0.01	-0.04	-0.06	0.12	-0.00	-0.03	-0.02	0.04
59	0.04	-0.14	0.02	-0.04	-0.01	-0.10	0.02	0.05	0.07	-0.08
60	0.12	-0.01	-0.03	0.02	0.03	-0.01	-0.07	0.00	0.05	0.02
61	0.21*	-0.04	-0.06	-0.06	-0.01	-0.04	-0.04	0.06	-0.04	0.0
62	-0.04	0.21*	-0.13	0.07	-0.12	0.06	-0.05	-0.05	0.07	0.09
63	-0.08	0.20*	-0.11	0.10	-0.11	0.04	-0.03	-0.05	-0.02	0.11
64	-0.0	-0.0	0.08	-0.06	0.05	-0.07	-0.07	0.03	0.07	-0.10
65	0.06	-0.04	-0.0	-0.01	0.11	0.05	-0.01	0.16*	-0.11	-0.04
66	0.09	-0.01	-0.05	0.03	0.12	0.02	-0.02	0.16*	-0.12	-0.02
67	-0.03	-0.04	0.03	-0.00	-0.06	0.11	-0.01	0.03	0.01	-0.02
68	-0.05	-0.09	0.11	-0.02	-0.06	0.06	-0.07	0.02	0.06	-0.02
69	0.08	-0.03	-0.05	0.01	0.12	0.03	-0.02	0.17*	-0.12	-0.03
70	0.03	0.07	-0.06	0.00	0.01	0.04	0.04	0.02	-0.05	0.01
71	-0.10	-0.06	0.17*	-0.04	0.01	-0.11	-0.03	0.07	0.11	-0.15*
72	0.07	-0.07	0.00	-0.01	0.10	0.01	0.01	0.17*	-0.09	-0.04
73	0.09	-0.02	-0.02	0.06	0.10	-0.01	-0.03	0.15*	-0.08	-0.03
74	-0.03	-0.03	0.07	0.00	-0.05	0.10	-0.00	0.03	0.03	-0.03
75	0.01	-0.11	0.16*	0.02	-0.01	0.01	-0.09	-0.01	0.15*	-0.11
76	0.00	-0.09	0.05	0.03	0.01	-0.07	-0.01	0.06	-0.11	-0.01
77	0.02	-0.07	0.03	0.08	0.05	-0.07	0.03	0.03	-0.02	0.03
78	0.10	0.02	0.01	0.04	-0.05	-0.02	-0.04	-0.02	0.04	0.01
79	0.01	-0.03	0.03	0.03	-0.05	0.01	0.01	-0.03	0.02	-0.01
80	0.02	-0.07	0.14*	-0.00	-0.03	0.09	0.07	-0.07	-0.06	0.03
81	0.02	-0.12	0.11	0.04	0.09	0.01	-0.02	0.06	-0.07	-0.01
82	-0.04	-0.00	-0.01	0.01	0.02	-0.04	0.00	0.10	0.01	-0.04
83	0.02	-0.04	0.01	0.0	0.05	0.01	0.06	0.01	-0.09	0.05
84	-0.01	0.02	0.0	-0.04	0.04	0.08	0.08	-0.03	-0.03	-0.05
85	0.02	-0.07	0.03	0.08	-0.13	0.17*	-0.07	-0.06	-0.06	0.00
86	0.14*	-0.04	-0.12	0.06	-0.06	0.16*	0.01	-0.03	-0.09	0.03
87	-0.85*	0.11	0.04	-0.17*	-0.17*	-0.06	0.03	0.14*	0.03	-0.11
88	0.36*	0.05	-0.03	-0.08	0.03	-0.11	-0.15*	0.14*	0.09	-0.06
89	0.95*	-0.05	-0.03	0.11	0.18*	-0.01	-0.11	-0.10	0.02	0.10
90	0.93*	-0.05	-0.02	0.09	0.20*	0.00	-0.11	-0.08	0.02	0.06
91	0.93*	-0.07	-0.03	0.07	0.15*	0.01	-0.08	-0.08	0.03	0.05
	11	12	13	14	15	16	17	18	19	20
1	0.03	0.02	0.34*	0.01	0.05	0.02	-0.03	0.11	0.02	-0.10
2	-0.40*	-0.21*	-0.07	-0.07	-0.17*	-0.28*	0.02	-0.27*	-0.14*	-0.36*
3	0.25*	0.23*	0.05	0.22*	-0.06	0.04	-0.07	0.07	0.08	0.22*
4	0.05	-0.05	-0.02	-0.06	0.05	0.02	0.27*	0.10	0.02	0.12
5	0.28*	0.01	0.16*	0.04	0.14*	0.14*	-0.14*	0.12	0.36*	-0.22*
6	-0.13	-0.10	-0.05	-0.03	-0.01	0.00	-0.01	-0.01	-0.21*	-0.10
7	0.05	0.05	-0.09	0.05	-0.04	0.01	-0.12	-0.09	0.11	0.13
8	0.12	-0.04	0.16*	-0.00	0.15*	0.08	-0.17*	-0.06	0.17*	-0.10
9	-0.00	0.05	0.02	0.02	-0.15*	-0.14*	-0.07	-0.01	-0.15*	0.10
10	0.03	-0.05	0.07	-0.02	-0.04	0.00	0.00	0.02	-0.00	-0.10
11	1.00	0.22*	0.02	0.16*	0.30*	0.25*	-0.05	0.12	0.55*	0.10
12	0.22*	1.00	0.02	0.02	0.07	-0.06	-0.08	0.17*	0.01	0.10
13	0.02	0.02	1.00	0.02	0.06	0.05	-0.14*	-0.01	0.04	0.10
14	0.16*	0.02	0.02	1.00	-0.09	0.16*	-0.02	0.06	0.23*	-0.10
15	0.30*	0.07	0.06	-0.09	1.00	0.19*	-0.04	0.10	0.42*	-0.10

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Table A.8-5: Continuation

11	12	13	14	15	16	17	18	19	20
0.25*	-0.06	0.05	0.16*	0.19*	1.00	-0.03	0.05	0.32*	-0.02
-0.05	-0.08	-0.14*	-0.02	-0.04	-0.03	1.00	-0.03	0.0	0.08
0.12	0.17*	-0.01	0.06	0.10	0.05	-0.03	1.00	-0.01	0.01
0.55*	0.01	0.04	0.23*	0.42*	0.32*	0.0	-0.01	1.00	0.02
0.15*	0.08	0.01	-0.01	-0.04	-0.02	0.08	0.01	0.02	1.00
0.14*	-0.10	0.13	-0.02	0.04	0.05	0.01	0.01	0.04	0.03
-0.02	-0.02	0.10	0.08	-0.03	0.03	0.10	0.02	0.09	-0.12
-0.13	0.05	-0.19*	0.06	-0.05	-0.11	0.11	-0.06	-0.09	-0.11
-0.04	-0.01	-0.21*	0.03	-0.04	-0.07	-0.20*	-0.06	-0.06	-0.02
0.13	-0.04	0.26*	-0.03	0.05	0.18*	-0.06	0.09	0.12	0.01
0.18*	0.02	0.23*	0.0	0.16*	0.11	-0.05	0.03	0.13	0.07
0.06	-0.01	0.23*	0.0	0.00	0.04	0.05	0.06	0.02	0.03
0.19*	-0.03	0.18*	0.02	0.09	0.10	0.03	0.04	0.19*	0.06
0.12	-0.02	0.11	-0.05	0.08	0.09	-0.01	0.05	0.20*	0.01
0.04	-0.12	0.21*	-0.00	0.07	-0.02	-0.05	0.03	0.12	-0.07
0.14*	-0.03	0.20*	0.02	0.00	0.03	-0.04	0.03	0.12	0.10
-0.17*	0.04	-0.27*	0.00	-0.07	-0.10	-0.01	-0.06	-0.16*	-0.05
0.43*	0.21*	0.14*	0.14*	0.08	0.14*	-0.08	0.19*	0.20*	0.15*
-0.12	-0.07	-0.08	-0.08	-0.03	-0.17*	-0.01	-0.10	-0.03	-0.01
0.02	-0.12	-0.01	0.04	0.01	0.04	0.02	0.01	0.06	0.0
0.17*	0.00	0.03	0.01	0.15*	0.14*	0.04	-0.08	0.21*	0.13
0.22*	-0.05	0.00	-0.00	0.15*	0.21*	0.07	-0.03	0.28*	0.11
0.12	0.05	0.06	0.21*	0.10	0.14*	-0.05	0.04	0.29*	0.03
0.17*	0.03	0.05	0.21*	0.06	0.17*	-0.05	0.10	0.20*	-0.00
0.01	0.11	0.01	0.03	0.02	0.05	-0.10	0.11	-0.09	0.01
0.00	0.08	0.03	0.08	0.02	0.05	-0.10	0.08	-0.05	-0.01
-0.11	-0.09	-0.01	-0.21*	-0.09	-0.13	0.02	-0.07	-0.24*	-0.04
-0.17*	-0.07	-0.03	-0.21*	-0.08	-0.20*	0.07	-0.13	-0.21*	-0.01
0.21*	0.37*	-0.03	0.14*	0.09	0.06	0.02	0.16*	0.07	0.05
0.18*	0.38*	0.02	0.12	0.07	0.11	-0.05	0.18*	0.06	0.06
-0.02	0.02	-0.04	0.01	0.10	-0.00	0.12	-0.13	-0.01	-0.01
0.11	-0.03	0.09	0.06	0.04	0.09	-0.03	0.07	0.10	0.04
0.02	0.06	-0.10	0.03	-0.10	-0.07	-0.07	-0.06	-0.04	-0.04
-0.04	-0.06	-0.03	-0.05	-0.15*	-0.05	0.04	-0.12	-0.08	-0.02
-0.03	0.15*	-0.11	-0.04	0.03	-0.01	0.01	0.07	-0.09	0.04
-0.01	-0.13	0.05	-0.06	0.06	0.01	0.04	-0.05	-0.06	0.0
-0.09	0.02	-0.07	0.03	0.0	0.00	0.02	0.02	-0.03	-0.11
0.05	0.14*	0.01	0.08	-0.13	0.01	0.03	-0.02	0.04	0.00
-0.05	-0.13	-0.03	-0.02	-0.01	-0.02	-0.01	0.07	-0.02	-0.05
-0.07	-0.09	-0.02	-0.03	-0.07	-0.05	-0.00	-0.04	-0.05	-0.07
0.04	0.06	-0.05	0.04	-0.04	0.00	0.03	0.08	-0.01	-0.04
0.11	-0.03	0.04	0.06	0.01	0.03	-0.05	0.06	0.03	0.04
-0.06	-0.12	0.02	-0.04	0.01	-0.03	0.04	0.03	-0.04	0.04
0.12	0.03	0.02	0.02	-0.01	0.05	0.02	0.05	0.08	0.03
0.03	-0.01	-0.02	-0.04	0.00	-0.00	-0.01	-0.12	0.05	-0.00
0.09	0.05	0.07	0.02	-0.02	0.08	0.05	-0.06	0.08	-0.07
-0.18*	-0.22*	-0.03	-0.20*	-0.13	-0.15*	0.02	-0.15*	-0.20*	-0.08
-0.50*	-0.18*	-0.03	-0.19*	-0.07	-0.17*	0.08	-0.14	-0.15*	-0.02
0.09	0.13	-0.03	0.01	0.07	0.08	-0.01	0.03	0.07	0.04
0.16*	-0.23*	0.02	0.10	0.50*	0.18*	0.02	0.04	0.34*	-0.09
0.16*	-0.23*	0.01	0.07	0.48*	0.15*	0.03	-0.01	0.35*	-0.04
-0.01	0.13	-0.02	0.08	0.09	-0.02	0.08	-0.05	-0.03	0.04
0.08	0.06	-0.02	0.03	0.20*	0.00	0.03	0.10	-0.04	0.04
0.17*	-0.25*	0.02	0.09	0.52*	0.18*	0.02	0.02	0.37*	-0.07
-0.08	0.02	-0.01	0.02	-0.09	-0.00	0.03	-0.11	0.02	-0.06
0.15*	0.16*	-0.01	0.09	0.07	0.09	-0.01	0.06	0.13	0.05



Table A.8-5: Continuation

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	11	12	13	14	15	16	17	18	19	20
72	0.22*	-0.20*	0.04	0.11	0.49*	0.20*	0.00	0.01	0.37*	-0.07
73	0.18*	-0.20*	0.02	0.08	0.48*	0.17*	0.10	-0.01	0.35*	-0.01
74	0.01	0.21*	-0.02	0.11	0.09	-0.04	0.03	-0.05	-0.02	0.02
75	0.10	0.07	0.02	0.08	0.19*	-0.02	0.02	0.12	-0.03	0.10
76	0.10	-0.03	-0.00	0.10	0.03	0.02	-0.01	0.05	0.14*	0.08
77	0.13	-0.04	-0.04	0.01	0.11	0.20*	0.0	0.07	0.15*	0.02
78	-0.05	-0.03	0.01	0.04	0.01	-0.06	0.02	0.12	-0.04	-0.08
79	-0.06	-0.10	-0.10	0.02	-0.10	0.00	0.03	0.03	-0.15*	-0.05
80	0.05	0.03	-0.01	0.16*	-0.04	0.14*	-0.03	0.02	-0.04	-0.05
81	0.17*	0.37*	0.03	0.06	0.30*	0.09	-0.04	0.09	0.15*	0.05
82	0.10	-0.01	-0.04	0.02	0.16*	0.09	0.08	-0.00	0.20*	0.04
83	0.09	-0.02	0.05	0.15*	0.09	0.04	0.03	0.08	0.21*	-0.04
84	0.07	-0.13	-0.02	0.09	0.10	0.04	-0.07	-0.08	0.10	0.04
85	-0.05	0.04	-0.03	-0.04	0.05	0.01	0.10	0.01	-0.09	-0.02
86	-0.11	-0.19*	0.03	-0.09	0.15*	0.05	0.01	-0.09	-0.02	-0.16*
87	-0.01	0.01	-0.24*	-0.01	-0.02	-0.07	0.01	-0.13	-0.05	0.10
88	-0.08	-0.05	0.26*	0.04	-0.01	0.05	0.19*	-0.01	0.04	-0.07
89	0.01	0.03	0.34*	0.00	0.04	0.04	0.06	0.08	0.02	-0.10
90	0.02	0.01	0.34*	0.00	0.03	0.02	0.05	0.08	0.02	-0.09
91	-0.01	0.02	0.36*	0.04	0.04	0.06	-0.01	0.09	0.03	-0.12
	21	22	23	24	25	26	27	28	29	30
1	0.41*	0.28*	-0.36*	-0.48*	0.42*	0.27*	0.54*	0.39*	0.23*	0.29*
2	0.04	0.07	-0.02	0.01	-0.11	-0.07	0.00	0.03	0.01	0.13
3	0.05	0.07	-0.09	-0.17*	0.11	0.26*	0.11	0.17*	0.07	0.00
4	0.12	-0.00	-0.12	-0.25*	0.21*	0.23*	0.15*	0.30*	0.18*	0.11
5	0.18*	0.07	-0.19*	-0.11	0.20*	0.03	0.14*	0.12	0.10	0.23*
6	-0.15*	-0.08	0.35*	0.26*	-0.17*	-0.20*	-0.18*	-0.44*	-0.18*	-0.22*
7	-0.05	0.01	0.04	0.04	0.06	0.02	-0.05	-0.04	-0.04	-0.06
8	0.06	0.07	-0.07	0.09	-0.02	-0.01	-0.04	0.02	0.15*	0.16*
9	-0.04	0.06	-0.11	-0.11	0.06	0.10	0.07	0.13	0.07	0.09
10	-0.02	-0.01	0.11	0.19*	-0.03	-0.05	-0.02	-0.12	-0.08	-0.12
11	0.14*	-0.02	-0.13	-0.04	0.13	0.18*	0.06	0.19*	0.12	0.04
12	-0.10	-0.02	0.05	-0.01	-0.04	0.02	-0.01	-0.03	-0.02	-0.12
13	0.13	0.10	-0.19*	-0.21*	0.26*	0.23*	0.23*	0.18*	0.11	0.21*
14	-0.02	0.08	0.06	0.03	-0.03	0.0	0.0	0.02	-0.05	-0.00
15	0.04	-0.03	-0.05	-0.04	0.05	0.16*	0.00	0.09	0.08	0.07
16	0.05	0.03	-0.11	-0.07	0.18*	0.11	0.04	0.10	0.09	-0.02
17	0.01	0.10	0.11	-0.20*	-0.06	-0.05	0.05	0.03	-0.01	-0.05
18	0.01	0.02	-0.06	-0.06	0.09	0.03	0.06	0.04	0.05	0.03
19	0.04	0.09	-0.09	-0.06	0.12	0.13	0.02	0.19*	0.20*	0.12
20	0.03	-0.12	-0.11	-0.02	0.01	0.07	0.03	0.06	0.01	-0.07
21	1.00	0.37*	-0.36*	-0.41*	0.40*	0.31*	0.43*	0.47*	0.19*	0.25*
22	0.37*	1.00	-0.17*	-0.18*	0.34*	0.14*	0.31*	0.34*	0.11	0.11
23	-0.36*	-0.17*	1.00	0.42*	-0.34*	-0.38*	-0.37*	-0.52*	-0.34*	-0.39*
24	-0.41*	-0.18*	0.42*	1.00	-0.35*	-0.34*	-0.46*	-0.47*	-0.33*	-0.37*
25	0.40*	0.34*	-0.34*	-0.35*	1.00	0.39*	0.54*	0.54*	0.29*	0.30*
26	0.31*	0.14*	-0.38*	-0.34*	0.39*	1.00	0.36*	0.57*	0.35*	0.30*
27	0.43*	0.31*	-0.37*	-0.46*	0.54*	0.36*	1.00	0.61*	0.27*	0.29*
28	0.47*	0.34*	-0.52*	-0.47*	0.54*	0.57*	0.61*	1.00	0.34*	0.40*
29	0.19*	0.11	-0.34*	-0.33*	0.29*	0.35*	0.27*	0.34*	1.00	0.41*
30	0.25*	0.11	-0.39*	-0.37*	0.30*	0.30*	0.29*	0.40*	0.41*	1.00
31	0.52*	0.34*	-0.64*	-0.51*	0.48*	0.46*	0.55*	0.74*	0.33*	0.45*
32	-0.63*	-0.47*	0.69*	0.65*	-0.66*	-0.65*	-0.70*	-0.85*	-0.50*	-0.54*
33	0.23*	0.19*	-0.31*	-0.13	0.29*	0.26*	0.27*	0.41*	0.16*	0.19*
34	-0.07	-0.03	-0.06	0.05	-0.17*	-0.06	-0.11	-0.05	0.04	0.05

Table A.8-5: Continuation

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	21	22	23	24	25	26	27	28	29	30
35	-0.05	-0.05	-0.02	0.02	-0.09	-0.06	-0.10	-0.05	-0.02	-0.03
36	0.08	0.01	0.0	-0.00	-0.05	0.06	-0.01	-0.02	-0.01	-0.00
37	0.07	0.01	-0.03	0.03	0.0	-0.00	0.00	-0.02	-0.01	-0.01
38	0.06	0.09	-0.17*	-0.09	0.11	0.03	0.09	0.13	0.12	0.11
39	0.04	0.10	-0.07	-0.03	0.10	-0.01	0.01	0.08	0.04	-0.01
40	-0.02	0.00	-0.04	-0.05	0.09	0.09	0.07	0.02	0.07	0.05
41	-0.05	-0.01	-0.04	-0.03	0.06	0.07	0.03	0.02	0.05	0.05
42	-0.06	-0.06	0.17*	0.08	-0.09	-0.02	-0.10	-0.10	-0.13	-0.07
43	-0.08	-0.11	0.12	0.04	-0.13	0.01	-0.09	-0.11	-0.07	-0.01
44	-0.08	-0.01	0.01	-0.06	0.01	0.12	0.0	0.05	0.04	-0.03
45	-0.02	0.06	-0.04	-0.13	0.03	0.14*	0.02	0.09	0.07	0.05
46	-0.08	0.02	0.21*	0.10	-0.06	-0.07	-0.04	-0.11	-0.11	-0.16*
47	0.12	0.08	-0.07	-0.07	0.08	0.14*	0.05	0.05	-0.04	-0.00
48	-0.05	0.03	0.06	0.05	-0.07	-0.16*	-0.07	-0.07	-0.05	-0.12
49	0.04	0.06	-0.05	0.02	0.04	-0.09	0.03	0.01	0.03	-0.09
50	-0.11	-0.04	-0.01	0.02	-0.12	-0.05	-0.09	-0.07	-0.04	-0.03
51	-0.05	-0.13	0.08	0.06	0.01	-0.04	-0.05	-0.16*	-0.02	-0.03
52	-0.01	-0.02	0.06	0.06	0.03	-0.02	-0.05	-0.02	0.08	0.07
53	0.00	0.06	0.06	-0.06	-0.01	0.02	0.10	0.06	-0.07	-0.08
54	0.09	0.04	-0.08	-0.03	0.04	0.06	0.02	0.06	0.14*	0.10
55	0.05	0.03	-0.03	-0.02	-0.09	-0.05	-0.06	-0.03	0.05	0.01
56	0.04	0.08	0.09	0.02	-0.06	-0.01	-0.06	-0.00	-0.05	-0.04
57	0.10	0.07	-0.01	0.06	0.10	0.02	0.05	0.08	0.00	0.02
58	-0.17*	-0.04	0.02	0.10	-0.05	0.00	-0.08	-0.07	-0.02	-0.06
59	-0.05	-0.05	-0.12	-0.09	0.05	0.06	0.10	0.10	0.07	0.06
60	0.04	-0.02	-0.00	-0.11	0.08	0.07	0.13	0.08	0.08	0.07
61	0.16*	0.08	-0.08	-0.12	0.12	0.05	0.16*	0.09	0.03	-0.04
62	-0.02	-0.07	0.13	0.11	-0.10	-0.10	-0.09	-0.10	-0.13	-0.08
63	-0.03	-0.10	0.12	0.09	-0.13	-0.05	-0.08	-0.12	-0.10	-0.04
64	-0.01	0.02	0.01	-0.01	0.08	0.04	-0.02	0.05	0.04	-0.01
65	0.04	0.02	-0.03	-0.07	0.06	0.09	0.01	0.07	0.04	0.06
66	0.09	0.06	-0.05	-0.09	0.09	0.12	0.09	0.14*	0.09	0.12
67	-0.11	-0.00	0.15*	0.06	-0.10	-0.05	-0.07	-0.10	-0.08	-0.10
68	0.01	0.04	0.00	-0.02	0.04	0.06	0.00	0.01	0.04	0.07
69	0.07	0.04	-0.04	-0.08	0.08	0.11	0.05	0.11	0.07	0.09
70	-0.12	-0.03	0.08	0.06	-0.11	-0.10	-0.07	-0.11	-0.07	-0.12
71	-0.04	0.03	-0.04	-0.02	0.01	0.02	-0.06	0.02	0.05	-0.04
72	0.07	0.05	-0.07	-0.09	0.08	0.15*	0.04	0.10	0.08	0.07
73	0.09	0.09	-0.08	-0.12	0.09	0.12	0.10	0.15*	0.08	0.11
74	-0.12	-0.00	0.15*	0.06	-0.09	-0.03	-0.08	-0.09	-0.06	-0.07
75	0.06	0.11	-0.06	-0.04	0.12	0.11	0.10	0.10	0.07	0.11
76	0.04	0.07	-0.01	0.06	0.03	0.01	0.05	0.04	0.05	0.05
77	0.10	0.05	-0.05	-0.10	0.11	0.03	0.08	0.09	0.06	-0.02
78	0.10	0.17*	-0.10	-0.13	0.13	0.04	0.13	0.08	0.02	0.13
79	0.04	0.06	-0.08	0.03	0.01	-0.07	-0.05	-0.07	0.03	0.01
80	0.0	0.01	0.04	-0.04	0.05	-0.03	-0.01	-0.04	-0.04	-0.03
81	0.01	-0.02	0.01	0.02	0.10	0.01	-0.00	0.00	0.02	-0.03
82	0.08	0.10	-0.09	-0.00	-0.06	0.03	0.02	0.11	0.05	-0.04
83	0.01	0.08	0.07	-0.02	0.14*	0.03	0.01	0.01	0.00	0.05
84	-0.02	-0.10	0.01	0.02	0.01	0.10	0.01	0.02	0.00	0.09
85	0.07	-0.03	0.02	-0.05	-0.00	0.0	-0.01	-0.08	0.03	-0.03
86	-0.05	-0.05	-0.04	-0.06	-0.03	0.01	0.01	-0.00	-0.05	0.03
87	-0.38*	-0.28*	0.30*	0.42*	-0.40*	-0.28*	-0.51*	-0.38*	-0.18*	-0.21*
88	0.14*	0.17*	-0.21*	-0.25*	0.22*	0.03	0.19*	0.15*	0.20*	0.17*
89	0.44*	0.33*	-0.38*	-0.50*	0.44*	0.28*	0.59*	0.42*	0.24*	0.29*
90	0.46*	0.33*	-0.37*	-0.49*	0.43*	0.27*	0.59*	0.40*	0.23*	0.29*
91	0.40*	0.30*	-0.37*	-0.50*	0.44*	0.28*	0.53*	0.39*	0.24*	0.29*

Table A.8-5: Continuation

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	31	32	33	34	35	36	37	38	39	40
1	0.39*	-0.54*	0.16*	-0.08	-0.03	0.06	0.05	0.03	0.02	0.06
2	0.08	-0.03	-0.23*	0.28*	-0.02	-0.08	-0.18*	-0.12	-0.17*	-0.07
3	0.18*	-0.19*	0.23*	-0.09	-0.12	-0.01	0.03	0.09	0.06	-0.01
4	0.50*	-0.27*	0.07	-0.06	-0.07	0.03	-0.01	-0.06	-0.10	-0.09
5	0.17*	-0.20*	0.16*	-0.04	-0.03	0.07	0.02	0.13	0.10	0.03
6	-0.46*	0.40*	-0.36*	-0.04	0.12	-0.03	-0.04	-0.10	0.03	0.02
7	-0.02	0.04	-0.02	0.33	0.03	0.02	0.08	0.06	0.05	0.0
8	0.10	-0.05	0.09	0.03	0.07	-0.05	0.00	0.10	0.07	-0.02
9	0.22*	-0.15*	0.13	0.00	-0.06	-0.02	-0.03	-0.14	-0.08	-0.03
10	-0.50*	0.13	-0.05	0.05	0.03	0.11	0.06	-0.10	-0.12	-0.05
11	0.14*	-0.17*	0.43*	-0.12	0.02	0.17*	0.22*	0.12	0.17*	0.01
12	-0.02	0.01	0.11*	-0.07	-0.11	0.09	-0.05	0.05	0.03	0.11
13	0.19*	-0.27*	0.14*	-0.06	-0.04	0.03	0.00	0.06	0.05	0.01
14	0.02	0.00	0.14*	-0.08	0.04	0.01	-0.00	0.21*	0.21*	0.03
15	0.00	-0.07	0.08	-0.03	0.01	0.15*	0.15*	0.10	0.06	0.02
16	0.03	-0.10	0.14*	-0.17*	0.04	0.14*	0.21*	0.14*	0.17*	0.05
17	-0.04	-0.01	-0.08	-0.01	0.02	0.04	0.07	-0.05	-0.05	-0.10
18	0.03	-0.06	0.19*	-0.10	0.01	-0.08	-0.03	0.04	0.10	0.11
19	0.12	-0.16*	0.20*	-0.03	0.06	0.21*	0.28*	0.29*	0.20*	-0.09
20	0.10	-0.05	0.15*	-0.01	0.0	0.13	0.11	0.03	-0.00	0.01
21	0.52*	-0.63*	0.23*	-0.07	-0.05	0.08	0.07	0.06	0.04	-0.02
22	0.34*	-0.47*	0.19*	-0.03	-0.05	0.01	0.01	0.09	0.10	0.00
23	-0.44*	0.69*	-0.31*	-0.06	-0.02	0.0	-0.03	-0.17*	-0.07	-0.04
24	-0.51*	0.65*	-0.13	0.05	0.02	-0.00	0.03	-0.09	-0.03	-0.05
25	0.48*	-0.66*	0.29*	-0.17*	-0.09	-0.05	0.0	0.11	0.10	0.09
26	0.46*	-0.65*	0.26*	-0.06	-0.06	0.06	-0.00	0.03	-0.01	0.09
27	0.55*	-0.70*	0.27*	-0.11	-0.10	-0.01	0.00	0.09	0.01	0.07
28	0.74*	-0.85*	0.41*	-0.05	-0.05	-0.02	-0.02	0.13	0.08	0.02
29	0.33*	-0.50*	0.16*	0.04	-0.02	-0.01	-0.01	0.12	0.04	0.07
30	0.45*	-0.54*	0.19*	0.05	-0.03	-0.00	-0.01	0.11	-0.01	0.05
31	1.00	-0.86*	0.41*	0.01	-0.05	-0.01	-0.04	0.18*	0.13	0.02
32	-0.66*	1.00	-0.41*	0.04	0.07	0.00	0.00	-0.16*	-0.09	-0.05
33	0.41*	-0.41*	1.00	-0.14*	-0.12	-0.01	0.05	0.15*	0.18*	0.07
34	0.01	0.04	0.04	1.00	0.50*	0.05	0.00	-0.16*	-0.17*	-0.09
35	-0.05	0.07	-0.12	0.50*	1.00	0.13	0.06	-0.10	-0.02	-0.10
36	-0.01	0.00	-0.01	0.05	0.13	1.00	0.54*	-0.22*	-0.27*	-0.28*
37	-0.04	0.00	0.05	0.00	0.06	0.54*	1.00	-0.13	-0.17*	-0.23*
38	0.18*	-0.16*	0.15*	-0.16*	-0.10	-0.22*	-0.13	1.00	0.68*	0.29*
39	0.13	-0.09	0.18*	-0.17*	-0.02	-0.27*	-0.17*	0.68*	1.00	0.33*
40	0.02	-0.05	0.07	-0.09	-0.10	-0.28*	-0.23*	0.29*	0.33*	1.00
41	0.03	-0.04	0.03	-0.11	-0.11	-0.25*	-0.27*	0.29*	0.31*	0.33*
42	-0.17*	0.14*	-0.16*	0.16*	0.11	0.18*	0.09	-0.93*	-0.64*	-0.26*
43	-0.18*	0.14	-0.23*	0.19*	0.03	0.23*	0.11	-0.62*	-0.85*	-0.26*
44	0.02	-0.03	0.16*	-0.20*	-0.10	-0.13	-0.06	0.19*	0.19*	0.42*
45	0.09	-0.10	0.21*	-0.19*	-0.11	-0.11	-0.04	0.22*	0.20*	0.44*
46	-0.13	0.13	-0.14*	0.12	0.09	0.11	0.06	-0.08	-0.08	-0.13
47	0.03	-0.08	0.09	-0.10	-0.04	0.01	-0.04	0.10	0.14*	-0.03
48	-0.04	0.09	0.00	-0.01	-0.02	-0.00	-0.02	0.01	-0.01	-0.02
49	0.08	-0.04	0.03	-0.05	-0.03	-0.03	0.03	-0.01	-0.05	-0.05
50	-0.15*	0.10	-0.02	-0.00	-0.04	-0.10	0.01	0.01	-0.01	-0.05
51	-0.09	0.11	-0.11	0.03	0.02	-0.01	0.01	-0.05	-0.05	-0.05
52	-0.03	0.01	-0.06	0.02	-0.01	-0.05	-0.07	0.01	-0.03	-0.03
53	-0.02	-0.02	-0.03	-0.03	-0.01	-0.00	-0.07	0.05	0.05	-0.03
54	0.09	-0.09	0.10	0.06	0.03	-0.02	0.05	0.01	0.03	-0.03
55	-0.00	0.00	-0.00	0.09	0.09	-0.01	-0.06	-0.01	-0.04	-0.04
56	-0.04	0.03	-0.02	-0.07	-0.00	0.03	-0.03	-0.07	-0.08	-0.08

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Table A.8-5: Continuation

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	31	32	33	34	35	36	37	38	39	40
7	0.05	-0.07	0.08	-0.05	-0.05	0.06	0.09	-0.08	-0.09	-0.06
8	-0.10	0.09	-0.09	-0.00	0.06	0.06	0.06	-0.08	0.01	0.04
9	0.11	-0.10	0.04	-0.05	0.05	-0.00	0.09	0.18*	0.12	0.07
10	0.07	-0.09	0.11	-0.09	-0.11	-0.05	0.01	0.02	-0.00	0.02
11	0.15*	-0.15*	0.11	-0.04	0.05	-0.02	-0.00	0.13	0.04	-0.03
12	-0.14*	0.14*	-0.17*	0.19*	0.12	0.24*	0.15*	-0.80*	-0.61*	-0.64*
13	-0.16*	0.15*	-0.21*	0.22*	0.08	0.28*	0.17*	-0.60*	-0.77*	-0.61*
14	0.05	-0.04	0.04	0.01	-0.00	0.08	0.04	0.04	0.03	0.02
15	0.03	-0.05	0.02	-0.01	0.08	0.11	0.14*	0.07	0.08	-0.03
16	0.11	-0.13	0.04	0.01	0.10	0.12	0.15*	0.08	0.08	-0.08
17	-0.12	0.12	-0.04	-0.01	0.04	0.03	-0.01	-0.01	-0.03	0.02
18	-0.01	-0.03	0.01	-0.00	-0.01	0.06	0.05	0.01	-0.02	0.07
19	0.07	-0.00	0.04	0.01	0.10	0.11	0.11*	0.08	0.18	-0.06
20	-0.10	0.13	-0.00	0.01	0.07	-0.01	-0.03	-0.01	0.00	-0.04
21	0.02	-0.02	0.11	0.01	-0.00	0.09	0.03	0.06	0.04	-0.01
22	0.06	-0.10	0.06	-0.05	0.05	0.09	0.14*	0.08	0.08	-0.02
23	0.12	-0.15*	0.06	-0.01	0.08	0.11	0.15*	0.08	0.08	-0.08
24	-0.11	0.11	-0.04	-0.02	0.01	0.02	0.02	-0.04	-0.05	0.01
25	0.07	-0.13	0.11	-0.03	-0.05	-0.05	0.02	0.02	-0.01	0.05
26	0.06	-0.05	0.12	-0.05	-0.02	0.00	0.08	0.07	-0.01	-0.04
27	0.08	-0.10	0.05	0.02	0.04	-0.05	-0.00	0.08	0.09	0.01
28	0.13	-0.15*	-0.01	-0.02	0.00	-0.05	-0.02	0.06	0.03	0.03
29	0.00	-0.00	-0.00	-0.09	0.01	-0.13	-0.06	-0.01	0.04	-0.02
30	-0.02	0.01	0.01	-0.05	0.06	0.09	0.12	-0.01	-0.01	-0.01
31	-0.03	0.01	0.09	0.04	0.04	-0.01	0.02	0.10	0.09	0.08
32	0.01	-0.06	-0.00	0.10	0.15*	0.11	0.10	0.02	-0.01	-0.03
33	0.01	-0.03	0.02	-0.00	0.03	-0.02	0.02	0.01	0.02	0.03
34	0.00	-0.01	-0.03	-0.08	0.02	0.08	0.00	0.13	0.06	0.10
35	-0.07	0.02	-0.12	-0.03	0.07	-0.01	0.02	-0.05	-0.07	-0.02
36	-0.05	0.02	-0.12	-0.03	0.0	-0.02	-0.00	0.08	0.07	0.05
37	-0.35*	0.50*	-0.13	0.07	-0.02	-0.05	-0.05	-0.06	-0.01	-0.04
38	0.22*	-0.26*	0.10	-0.00	-0.04	-0.02	0.01	0.02	0.02	0.02
39	0.43*	-0.58*	0.20*	-0.08	-0.05	0.05	0.05	0.04	0.02	0.06
40	0.42*	-0.57*	0.19*	-0.07	-0.05	0.06	0.06	0.04	0.01	0.05
41	0.41*	-0.55*	0.17*	-0.06	-0.01	0.04	0.05	0.05	0.03	0.07
42	0.04	-0.01	-0.07	0.01	0.06	-0.05	0.15*	-0.03	0.08	-0.04
43	-0.05	0.12	0.20*	-0.25*	-0.21*	0.00	-0.10	0.03	0.05	-0.08
44	0.01	-0.09	-0.09	0.17*	0.22*	-0.01	-0.01	-0.03	-0.06	0.05
45	-0.08	0.05	0.08	-0.02	-0.05	0.02	-0.01	-0.01	-0.00	-0.03
46	0.07	-0.12	-0.15*	0.06	0.02	-0.10	0.11	0.04	-0.07	-0.03
47	-0.01	0.09	-0.01	-0.04	-0.13	0.16*	0.04	-0.10	-0.05	0.07
48	0.01	-0.11	-0.08	-0.01	-0.02	0.03	0.02	-0.04	-0.03	0.04
49	0.01	-0.08	-0.05	-0.04	-0.00	0.06	0.01	0.04	0.05	-0.07
50	0.03	0.11	0.07	0.10	0.13	-0.09	-0.14*	0.04	0.07	0.01
51	-0.06	0.10	0.08	-0.03	-0.08	0.03	0.07	0.02	0.05	-0.02
52	0.00	-0.11	-0.17*	0.21*	0.18*	-0.02	0.11	0.02	-0.04	-0.03
53	0.08	-0.09	-0.07	0.37*	0.38*	0.02	-0.03	0.06	-0.06	0.15*
54	0.03	-0.01	-0.03	-0.03	0.02	-0.04	0.09	-0.10	-0.03	-0.11
55	0.08	-0.21*	-0.21*	0.14*	0.12	0.01	0.06	0.03	-0.05	-0.04
56	0.02	-0.09	-0.08	0.09	0.07	0.10	0.04	-0.10	-0.15*	0.03
57	0.05	-0.13	-0.20*	0.06	0.11	-0.00	0.09	-0.07	-0.05	-0.01
58	-0.10	0.02	0.07	0.02	-0.05	0.12	-0.03	-0.07	0.04	0.01
59	0.08	-0.07	-0.13	0.16*	0.18*	-0.13	0.07	-0.06	-0.12	0.07
60	0.05	-0.24*	-0.21*	0.07	0.06	-0.01	0.10	-0.04	-0.08	-0.09

Table A.8-5: Continuation

	41	42	43	44	45	46	47	48	49	50
20	-0.01	-0.04	-0.01	0.05	0.06	-0.01	0.04	-0.04	-0.02	0.04
21	-0.05	-0.06	-0.08	-0.08	-0.02	-0.08	0.12	-0.05	0.04	-0.11
22	-0.01	-0.06	-0.11	-0.01	0.06	0.02	0.08	0.03	0.06	-0.04
23	-0.04	0.17*	0.12	0.01	-0.04	0.21*	-0.07	0.06	-0.05	-0.01
24	-0.03	0.08	0.04	-0.06	-0.13	0.10	-0.07	0.05	0.02	0.02
25	0.06	-0.09	-0.13	0.01	0.03	-0.06	0.08	-0.07	0.04	-0.12
26	0.07	-0.02	0.01	0.12	0.14*	-0.07	0.14*	-0.16*	-0.09	-0.05
27	0.03	-0.10	-0.09	0.0	0.02	-0.04	0.05	-0.07	0.03	-0.09
28	0.02	-0.10	-0.11	0.05	0.09	-0.11	0.05	-0.07	0.01	-0.07
29	0.05	-0.13	-0.07	0.04	0.07	-0.11	-0.04	-0.05	0.03	-0.04
30	0.05	-0.07	-0.01	-0.03	0.05	-0.16*	-0.00	-0.12	-0.09	-0.03
31	0.03	-0.17*	-0.18*	0.02	0.09	-0.13	0.03	-0.04	0.08	-0.15*
32	-0.04	0.14*	0.14	-0.03	-0.10	0.13	-0.08	0.09	-0.04	0.10
33	0.03	-0.16*	-0.23*	0.16*	0.21*	-0.14*	0.09	0.00	0.03	-0.02
34	-0.11	0.16*	0.19*	-0.20*	-0.19*	0.12	-0.10	-0.01	-0.05	-0.00
35	-0.11	0.11	0.03	-0.10	-0.11	0.09	-0.04	-0.02	-0.03	-0.04
36	-0.25*	0.18*	0.23*	-0.13	-0.11	0.11	0.01	-0.00	-0.03	-0.10
37	-0.27*	0.09	0.11	-0.06	-0.04	0.06	-0.04	-0.02	0.03	0.01
38	0.29*	-0.93*	-0.62*	0.19*	0.22*	-0.08	0.10	0.01	-0.01	0.01
39	0.31*	-0.64*	-0.85*	0.19*	0.20*	-0.08	0.14*	-0.01	-0.05	-0.01
40	0.83*	-0.26*	-0.30*	0.42*	0.42*	-0.10	0.13	-0.01	-0.07	0.15*
41	1.00	-0.26*	-0.27*	0.44*	0.42*	-0.14*	0.12	-0.01	-0.08	0.10
42	-0.26*	1.00	0.67*	-0.20*	-0.21*	0.09	-0.07	-0.05	0.01	-0.03
43	-0.27*	0.67*	1.00	-0.16*	-0.18*	0.07	-0.13	-0.00	0.04	0.03
44	0.44*	-0.20*	-0.16*	1.00	0.80*	-0.18*	0.15*	0.02	-0.11	0.09
45	0.42*	-0.21*	-0.18*	0.80*	1.00	-0.19*	0.12	0.03	-0.10	0.09
46	-0.14*	0.09	0.07	-0.18*	-0.19*	1.00	-0.17*	-0.04	0.07	0.02
47	0.12	-0.07	-0.13	0.15*	0.12	-0.17*	1.00	-0.06	-0.22*	-0.20*
48	-0.01	-0.05	-0.00	0.02	0.03	-0.04	-0.06	1.00	0.33*	0.01
49	-0.08	0.01	0.04	-0.11	-0.10	0.07	-0.22*	0.33*	1.00	-0.14*
50	0.10	-0.03	0.03	0.09	0.09	0.02	-0.20*	0.01	-0.14*	1.00
51	-0.04	0.06	0.09	-0.11	-0.11	0.11	-0.06	-0.16*	-0.03	0.05
52	-0.01	0.01	0.08	0.03	0.02	-0.02	-0.06	0.00	-0.00	0.07
53	0.07	0.01	-0.02	0.10	0.10	0.01	0.13	-0.00	0.01	-0.10
54	-0.06	-0.02	-0.01	-0.03	0.01	-0.16*	0.05	0.03	-0.02	0.0
55	-0.02	0.02	0.05	-0.04	-0.07	0.01	0.05	0.06	0.01	-0.04
56	0.03	0.10	0.14*	0.10	0.07	0.06	0.08	0.02	-0.07	-0.06
57	-0.04	0.05	0.05	0.03	0.05	0.04	0.01	0.01	-0.03	-0.02
58	0.02	0.07	0.03	0.03	-0.01	0.08	-0.14*	-0.19*	-0.05	0.01
59	0.05	-0.20*	-0.15*	0.09	0.11	-0.03	-0.08	0.08	0.10	0.06
60	-0.00	-0.03	0.03	0.04	0.04	-0.09	-0.04	0.15*	0.23*	-0.04
61	-0.03	-0.14*	-0.11	0.02	0.06	-0.02	0.11	0.07	0.22*	-0.17*
62	-0.61*	0.79*	0.59*	-0.60*	-0.55*	0.14*	-0.20*	0.06	0.14*	-0.05
63	-0.64*	0.59*	0.76*	-0.49*	-0.58*	0.14*	-0.11	-0.08	-0.13	-0.01
64	0.03	-0.03	-0.02	0.09	0.06	0.09	-0.17*	-0.02	0.04	0.04
65	-0.04	-0.04	-0.06	-0.06	-0.07	0.16*	0.03	-0.00	-0.09	0.01
66	-0.09	-0.04	-0.04	-0.09	-0.05	0.19*	0.01	-0.04	-0.11	-0.03
67	-0.01	-0.01	0.03	-0.03	-0.03	0.64*	-0.19*	0.03	0.08	0.10
68	0.00	-0.01	0.03	0.07	0.04	0.13	0.01	-0.09	-0.08	0.02
69	-0.07	-0.05	-0.05	-0.08	-0.07	0.18*	0.03	-0.02	-0.11	-0.00
70	-0.01	0.0	-0.00	-0.06	-0.04	0.28*	-0.10	0.13	0.11	0.02
71	0.02	-0.07	-0.03	0.13	0.09	0.09	-0.13	0.02	-0.01	0.05
72	-0.03	-0.06	-0.07	-0.03	-0.06	0.14*	0.04	0.0	-0.07	0.01
73	-0.08	-0.06	-0.05	-0.05	-0.04	0.20*	0.01	-0.03	-0.10	-0.03
74	-0.02	0.01	0.04	0.00	0.01	0.61*	-0.21	0.05	0.06	0.11

Table A.8-5: Continuation

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	41	42	43	44	45	46	47	48	49
75	-0.01	-0.04	0.01	0.08	0.09	0.05	0.01	-0.09	-0.12
76	0.03	-0.07	0.01	0.05	-0.03	-0.04	0.01	0.04	-0.03
77	0.02	-0.11	-0.14*	0.04	0.03	0.04	0.03	0.01	-0.02
78	0.01	-0.05	-0.00	0.05	0.08	-0.03	0.04	-0.02	-0.01
79	-0.01	0.01	-0.04	-0.02	0.0	0.01	-0.05	0.05	0.06
80	-0.04	-0.04	-0.01	0.03	0.06	0.05	0.07	0.05	0.06
81	0.05	-0.13	-0.09	0.14*	0.16*	0.13	0.01	-0.01	-0.15*
82	-0.01	-0.01	-0.00	-0.01	-0.01	0.08	-0.07	-0.03	-0.05
83	-0.01	0.00	0.01	0.06	0.03	0.04	0.03	-0.05	-0.01
84	0.12	-0.09	-0.03	0.06	0.04	0.04	-0.01	-0.04	-0.03
85	-0.10	0.06	0.09	-0.10	-0.09	0.15*	-0.15*	-0.11	0.04
86	0.01	-0.05	-0.04	-0.06	-0.02	0.07	-0.02	-0.08	0.13
87	-0.03	0.04	0.08	0.01	0.01	0.06	-0.14*	0.02	-0.10
88	0.04	-0.03	-0.05	0.05	0.14*	-0.03	0.03	0.01	0.00
89	0.05	-0.03	-0.09	0.04	0.08	-0.05	0.17*	-0.05	0.07
90	0.04	-0.03	-0.08	0.05	0.08	-0.07	0.18*	-0.06	0.06
91	0.06	-0.02	-0.09	0.04	0.07	-0.06	0.16*	-0.04	0.06
	51	52	53	54	55	56	57	58	59
1	-0.02	-0.07	0.02	0.05	0.07	-0.06	0.01	-0.12	0.04
2	0.00	0.03	-0.06	-0.02	0.12	0.02	-0.01	-0.00	-0.14
3	-0.07	-0.11	0.08	-0.01	-0.09	-0.01	0.0	-0.01	0.02
4	0.02	0.07	-0.03	-0.01	-0.05	-0.01	0.04	-0.04	-0.04
5	-0.07	-0.06	0.07	0.05	0.02	0.06	0.14*	-0.06	-0.01
6	0.06	-0.02	0.01	-0.02	0.07	-0.05	-0.05	0.12	-0.10
7	0.05	-0.11	-0.04	0.02	-0.10	0.04	0.03	-0.00	0.02
8	0.07	0.02	-0.01	-0.07	-0.02	0.10	0.01	-0.03	0.05
9	-0.06	0.04	0.02	0.01	0.01	-0.10	0.07	-0.02	0.07
10	0.01	-0.01	0.03	-0.03	0.09	0.06	0.04	0.04	-0.08
11	-0.01	-0.09	0.05	-0.05	-0.07	0.04	0.11	-0.06	0.12
12	-0.13	0.02	0.14*	-0.13	-0.09	0.06	-0.03	-0.12	0.03
13	0.05	-0.07	0.01	-0.03	-0.02	-0.05	0.04	0.02	0.02
14	-0.06	0.03	0.08	-0.02	-0.03	0.04	0.06	-0.04	0.02
15	0.06	0.0	-0.13	-0.01	-0.07	-0.04	0.01	0.01	-0.01
16	0.01	0.00	0.01	-0.02	-0.05	0.00	0.03	-0.03	0.05
17	0.04	0.02	0.03	-0.01	-0.00	0.03	-0.05	0.04	0.02
18	-0.05	0.02	-0.02	0.07	-0.04	0.08	0.06	0.03	0.05
19	-0.06	-0.03	0.04	-0.02	-0.05	-0.01	0.03	-0.04	0.08
20	0.0	-0.11	0.00	-0.05	-0.07	-0.04	0.04	0.04	0.03
21	-0.05	-0.01	0.00	0.09	0.05	0.04	0.10	-0.17*	-0.05
22	-0.13	-0.02	0.06	0.04	0.03	0.08	0.07	-0.04	-0.05
23	0.08	0.06	0.06	-0.08	-0.03	0.09	-0.01	0.02	-0.12
24	0.06	0.06	-0.06	-0.03	-0.02	0.02	0.06	0.10	-0.09
25	0.01	0.03	-0.01	0.04	-0.09	-0.06	0.10	-0.05	0.05
26	-0.04	-0.02	0.02	0.06	-0.05	-0.01	0.02	0.00	0.06
27	-0.05	-0.05	0.10	0.02	-0.06	-0.06	0.05	-0.08	0.10
28	-0.16*	-0.02	0.06	0.06	-0.03	-0.00	0.08	-0.07	0.10
29	-0.02	0.08	-0.07	0.14*	0.05	-0.05	0.00	-0.02	0.07
30	-0.03	0.07	-0.08	0.10	0.01	-0.04	0.02	-0.06	0.06
31	-0.09	-0.03	-0.02	0.09	-0.00	-0.04	0.05	-0.10	0.11
32	0.11	0.01	-0.02	-0.09	0.00	0.03	-0.07	0.09	-0.10
33	-0.11	-0.06	-0.03	0.10	-0.00	-0.02	0.08	-0.09	0.04
34	0.03	0.02	-0.03	0.06	0.09	-0.07	-0.05	-0.00	-0.05
35	0.02	-0.01	-0.01	0.03	0.09	-0.00	-0.05	0.06	0.05
36	-0.01	-0.05	-0.00	-0.02	-0.01	0.03	0.06	0.06	-0.00



Table A.8-5: Continuation

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	51	52	53	54	55	56	57	58	59	60
37	0.01	-0.07	-0.07	0.05	-0.06	-0.03	0.09	0.06	0.09	0.01
38	-0.05	0.01	0.05	0.01	-0.01	-0.07	-0.08	-0.08	0.18*	0.02
39	-0.05	-0.03	0.06	0.03	-0.04	-0.08	-0.09	0.01	0.12	-0.00
40	-0.01	-0.05	0.05	-0.02	-0.05	0.07	-0.06	0.04	0.07	0.02
41	-0.04	-0.01	0.07	-0.06	-0.02	0.03	-0.04	0.02	0.05	-0.00
42	0.06	0.01	0.01	-0.02	0.02	0.10	0.05	0.07	-0.20*	-0.03
43	0.09	0.08	-0.02	-0.01	0.05	0.14*	0.05	0.03	-0.15*	0.03
44	-0.11	0.03	0.10	-0.03	-0.04	0.10	0.03	0.03	0.09	0.04
45	-0.11	0.02	0.10	0.01	-0.07	0.07	0.05	-0.01	0.11	0.04
46	0.11	-0.02	0.01	-0.16*	0.01	0.06	0.04	0.08	-0.03	-0.09
47	-0.06	-0.06	0.13	0.05	0.05	0.08	0.01	-0.14*	-0.08	-0.04
48	-0.16*	0.00	-0.00	0.03	0.06	0.02	0.01	-0.19*	0.08	0.15*
49	-0.03	-0.00	0.01	-0.02	0.01	-0.07	-0.03	-0.05	0.10	0.23*
50	0.05	0.07	-0.10	0.0	-0.04	-0.06	-0.02	0.01	0.06	-0.04
51	1.00	0.03	-0.14	-0.24*	0.08	-0.02	-0.06	0.05	0.01	-0.07
52	0.03	1.00	0.01	-0.07	0.02	0.06	0.07	-0.07	0.04	-0.09
53	-0.14	0.01	1.00	-0.47*	0.01	0.09	-0.02	-0.08	0.07	-0.06
54	-0.24*	-0.07	-0.47*	1.00	-0.03	-0.03	0.02	-0.07	-0.02	0.06
55	0.08	0.02	0.01	-0.03	1.00	0.08	0.02	0.01	0.00	0.03
56	-0.02	0.06	0.09	-0.03	0.08	1.00	0.05	0.03	0.02	-0.07
57	-0.06	0.07	-0.02	0.02	0.02	0.06	1.00	0.06	0.01	0.01
58	0.05	-0.07	-0.08	-0.07	0.01	0.03	0.06	1.00	0.11	-0.25*
59	0.01	0.04	0.07	-0.02	0.00	0.02	0.01	0.11	1.00	0.07
60	-0.07	-0.09	-0.06	0.06	0.03	-0.07	0.01	-0.25*	0.07	1.00
61	-0.06	-0.02	0.07	0.04	0.17*	-0.05	0.01	-0.27*	0.29*	0.11
62	0.08	0.00	-0.09	0.01	0.05	-0.02	0.04	0.01	-0.19*	0.03
63	0.12	0.03	-0.10	0.03	0.06	0.05	0.05	0.0	-0.18*	-0.06
64	-0.04	-0.07	0.14*	-0.09	-0.01	-0.07	-0.05	0.04	0.01	-0.05
65	0.00	-0.09	-0.05	0.02	-0.00	-0.01	0.03	0.06	-0.01	0.0
66	0.01	-0.04	-0.04	0.06	-0.00	-0.03	0.08	0.06	-0.02	-0.00
67	0.07	0.0	0.0	-0.09	0.06	0.13	0.02	0.06	0.03	-0.02
68	0.17*	0.03	-0.04	-0.01	0.02	0.02	-0.12	-0.02	0.10	-0.02
69	0.01	-0.07	-0.05	0.04	-0.00	-0.02	0.06	0.06	-0.31	-0.00
70	-0.11	-0.03	0.0	0.00	0.01	0.09	0.06	0.05	-0.06	0.01
71	-0.09	-0.07	0.16*	-0.10	-0.04	-0.02	-0.03	0.03	-0.32	-0.04
72	-0.00	-0.10	-0.05	0.01	-0.01	-0.00	0.04	0.06	0.03	0.03
73	0.02	-0.04	-0.01	0.02	-0.01	-0.02	0.06	0.05	0.0	0.00
74	0.01	0.04	0.00	-0.09	0.06	0.15*	0.01	0.07	0.06	-0.02
75	0.15*	0.08	0.04	-0.06	0.04	0.02	0.02	-0.01	0.13	-0.06
76	-0.07	-0.04	-0.02	-0.04	-0.02	0.00	0.04	0.01	-0.01	-0.02
77	0.00	0.02	0.01	-0.07	-0.02	-0.09	-0.04	-0.01	-0.04	-0.05
78	-0.07	0.06	-0.04	0.18*	-0.04	0.04	-0.01	0.01	-0.03	-0.03
79	0.0	-0.04	-0.04	0.07	-0.10	-0.04	-0.07	0.03	-0.05	-0.04
80	-0.15*	-0.05	0.11	0.00	0.01	0.00	-0.01	0.04	-0.01	-0.07
81	-0.03	0.00	-0.03	-0.02	-0.08	-0.01	0.03	-0.07	-0.05	-0.05
82	-0.02	0.01	0.03	-0.04	-0.00	0.07	-0.01	0.06	0.04	-0.07
83	0.07	0.03	-0.06	0.04	-0.06	0.02	0.03	0.13	0.04	0.01
84	0.04	0.03	-0.02	0.01	-0.00	-0.02	-0.02	-0.03	0.07	-0.00
85	0.02	0.07	-0.03	-0.02	0.08	-0.03	-0.05	-0.03	-0.06	0.05
86	0.07	-0.10	-0.03	0.03	-0.06	-0.02	-0.09	0.04	-0.10	0.05
87	0.03	0.06	-0.05	-0.03	-0.07	0.06	-0.00	0.14*	-0.08	-0.15*
88	-0.01	-0.01	-0.06	0.07	0.05	-0.05	-0.01	0.01	0.05	0.14*
89	-0.04	-0.08	0.03	0.07	0.07	-0.07	0.02	-0.10	0.03	0.14
90	-0.02	-0.09	0.03	0.08	0.06	-0.07	0.02	-0.11	0.03	0.14
91	-0.05	-0.07	0.02	0.04	0.07	-0.08	0.02	-0.09	0.05	0.14

Table A.8-5: Continuation

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	61	62	63	64	65	66	67	68	69	70
1	0.21*	-0.04	-0.08	-0.08	0.06	0.09	-0.03	-0.05	0.08	0.03
2	-0.04	0.21*	0.20*	-0.03	-0.04	-0.01	-0.04	-0.09	-0.03	0.07
3	-0.06	-0.13	-0.11	0.08	-0.05	-0.05	0.03	0.11	-0.05	-0.06
4	-0.06	0.07	0.10	-0.06	-0.01	0.03	-0.00	-0.02	0.01	0.00
5	-0.01	-0.12	-0.11	0.05	0.11	0.12	-0.06	-0.06	0.12	0.01
6	-0.04	0.06	0.04	-0.07	0.05	0.02	0.11	0.06	0.03	0.04
7	-0.04	-0.05	-0.03	-0.07	-0.01	-0.02	-0.01	-0.07	-0.02	0.04
8	0.06	-0.05	-0.05	0.03	0.16*	0.16*	0.03	0.02	0.17*	0.02
9	-0.04	0.07	-0.02	0.07	-0.11	-0.12	0.01	0.06	-0.12	-0.05
10	0.0	0.09	0.11	-0.10	-0.04	-0.02	-0.02	-0.02	-0.03	0.01
11	0.09	-0.18*	-0.20*	0.09	0.16*	0.16*	-0.01	0.08	0.17*	-0.08
12	0.05	-0.22*	-0.18*	0.13	-0.23*	-0.23*	0.13	0.06	-0.25*	0.02
13	0.07	-0.03	-0.03	-0.03	0.02	0.01	-0.02	-0.02	0.02	-0.01
14	0.02	-0.20*	-0.19*	0.01	0.10	0.07	0.08	0.03	0.09	0.02
15	-0.02	-0.13	-0.07	0.07	0.50*	0.48*	0.09	0.20*	0.52*	-0.09
16	0.08	-0.15*	-0.17*	0.08	0.18*	0.15*	-0.02	0.00	0.18*	-0.00
17	0.05	0.02	0.08	-0.01	0.02	0.03	0.08	0.03	0.02	0.03
18	-0.06	-0.15*	-0.14	0.03	0.04	-0.01	-0.05	0.10	0.02	-0.11
19	0.08	-0.20*	-0.15*	0.07	0.34*	0.35*	-0.03	-0.04	0.37*	0.02
20	-0.07	-0.08	-0.02	0.04	-0.09	-0.04	0.04	0.04	-0.07	-0.06
21	0.16*	-0.02	-0.03	-0.01	0.04	0.09	-0.11	0.01	0.07	-0.12
22	0.08	-0.07	-0.10	0.02	0.02	0.06	-0.00	0.04	0.04	-0.03
23	-0.08	0.13	0.12	0.01	-0.03	-0.05	0.15*	0.00	-0.04	0.08
24	-0.12	0.11	0.09	-0.01	-0.07	-0.09	0.06	-0.02	-0.08	0.06
25	0.12	-0.10	-0.13	0.08	0.06	0.09	-0.10	0.04	0.08	-0.11
26	0.05	-0.10	-0.05	0.04	0.09	0.12	-0.05	0.06	0.11	-0.10
27	0.16*	-0.09	-0.08	-0.02	0.01	0.09	-0.07	0.00	0.05	-0.07
28	0.09	-0.10	-0.12	0.05	0.07	0.14*	-0.10	0.01	0.11	-0.11
29	0.03	-0.13	-0.10	0.04	0.04	0.09	-0.08	0.04	0.07	-0.07
30	-0.04	-0.08	-0.04	-0.01	0.06	0.12	-0.10	0.07	0.09	-0.12
31	0.15*	-0.14*	-0.16*	0.05	0.03	0.11	-0.12	-0.01	0.07	-0.10
32	-0.15*	0.14*	0.15*	-0.04	-0.05	-0.13	0.12	-0.03	-0.09	0.13
33	0.11	-0.17*	-0.21*	0.04	0.02	0.04	-0.04	0.01	0.04	-0.06
34	-0.04	0.19*	0.22*	0.01	-0.01	0.01	-0.01	-0.00	0.0	0.01
35	0.05	0.12	0.08	-0.00	0.08	0.10	0.04	-0.01	0.10	0.07
36	-0.02	0.24*	0.28*	0.08	0.11	0.12	0.03	0.06	0.12	-0.01
37	-0.00	0.15*	0.17*	0.04	0.14*	0.15*	-0.01	0.05	0.15*	-0.03
38	0.13	-0.80*	-0.60*	0.04	0.07	0.08	-0.01	0.01	0.08	-0.01
39	0.04	-0.61*	-0.77*	0.03	0.08	0.08	-0.03	-0.02	0.08	-0.00
40	-0.03	-0.64*	-0.61*	0.02	-0.03	-0.08	0.02	0.07	-0.06	-0.04
41	-0.03	-0.61*	-0.64*	0.03	-0.04	-0.09	-0.01	0.00	-0.07	-0.01
42	-0.14*	0.79*	0.59*	-0.03	-0.04	-0.04	-0.01	-0.01	-0.05	0.0
43	-0.11	0.59*	0.76*	-0.02	-0.06	-0.04	0.03	0.03	-0.05	-0.00
44	0.02	-0.60*	-0.49*	0.09	-0.06	-0.09	-0.03	0.07	-0.08	-0.06
45	0.06	-0.55*	-0.58*	0.06	-0.07	-0.05	-0.03	0.04	-0.07	-0.04
46	-0.02	0.14*	0.14*	0.09	0.16*	0.19*	0.64*	0.13	0.18*	0.28*
47	0.11	-0.20*	-0.11	-0.17*	0.03	0.01	-0.19*	0.01	0.03	-0.10
48	0.07	0.06	-0.08	-0.02	-0.00	-0.04	0.03	-0.09	-0.02	0.13
49	0.22*	0.14*	-0.13	0.04	-0.09	-0.11	0.08	-0.08	-0.11	0.11
50	-0.17*	-0.05	-0.01	0.04	0.01	-0.03	0.10	0.02	-0.00	0.02
51	-0.06	0.08	0.12	-0.04	0.00	0.01	0.07	0.17*	0.01	-0.11
52	-0.02	0.00	0.03	-0.07	-0.09	-0.04	0.0	0.03	-0.07	-0.03
53	0.07	-0.09	-0.10	0.14*	-0.05	-0.04	0.0	-0.04	-0.05	0.0
54	0.04	0.01	0.03	-0.09	0.02	0.06	-0.09	-0.01	0.04	0.00
55	0.17*	0.05	0.06	-0.01	-0.00	-0.00	0.06	0.02	-0.00	0.01

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Table A.8-5: Continuation

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	61	62	63	64	65	66	67	68	69	70
56	-0.05	-0.02	0.05	-0.07	-0.01	-0.03	0.13	0.02	-0.02	0.09
57	0.01	0.04	0.05	-0.05	0.03	0.08	0.02	-0.12	0.06	0.06
58	-0.27*	0.01	0.0	0.04	0.06	0.06	0.06	-0.02	0.06	0.05
59	0.29*	-0.19*	-0.18*	0.01	-0.01	-0.02	0.06	0.10	-0.01	-0.06
60	0.11	0.03	-0.06	-0.05	0.0	-0.00	-0.02	-0.02	-0.00	0.01
61	1.00	-0.08	-0.10	-0.00	-0.08	-0.03	0.01	-0.02	-0.06	0.02
62	-0.08	1.00	0.75*	-0.06	-0.03	-0.00	0.01	-0.06	-0.02	0.06
63	-0.10	0.75*	1.00	-0.09	-0.00	0.01	0.01	0.02	0.00	-0.01
64	-0.00	-0.06	-0.09	1.00	0.08	0.07	0.08	0.05	0.08	0.00
65	-0.08	-0.03	-0.00	0.08	1.00	0.76*	0.14*	0.09	0.95*	0.04
66	-0.03	-0.00	0.01	0.07	0.76*	1.00	0.17*	0.03	0.93*	0.09
67	0.01	0.01	0.01	0.08	0.14*	0.17*	1.00	0.14*	0.16*	0.49*
68	-0.02	-0.06	0.02	0.05	0.09	0.03	0.14*	1.00	0.06	-0.73*
69	-0.06	-0.02	0.00	0.08	0.95*	0.93*	0.16*	0.06	1.00	0.07
70	0.02	0.06	-0.01	0.00	0.04	0.09	0.49*	-0.73*	0.07	1.00
71	-0.09	-0.10	-0.09	0.77*	0.10	0.07	0.12	0.01	0.10	0.06
72	-0.07	-0.05	-0.03	0.09	0.95*	0.73*	0.13	0.08	0.90*	0.04
73	-0.04	-0.03	-0.00	0.11	0.76*	0.94*	0.17*	0.03	0.90*	0.08
74	-0.03	0.02	0.02	0.10	0.12	0.16*	0.95*	0.14*	0.15*	0.46*
75	0.02	-0.08	-0.00	0.04	0.08	0.05	0.12	0.77*	0.07	-0.62*
76	-0.02	-0.05	0.01	0.10	-0.03	0.03	0.02	-0.01	-0.00	0.0
77	0.16*	-0.09	-0.11	-0.01	0.14*	0.14*	-0.01	0.05	0.15*	-0.04
78	-0.00	-0.06	-0.04	-0.09	0.07	0.08	-0.04	0.02	0.08	-0.02
79	-0.03	0.03	-0.03	-0.02	-0.02	0.02	0.05	-0.01	0.0	0.06
80	0.05	-0.01	-0.03	0.05	0.01	0.0	0.09	-0.01	0.01	0.12
81	-0.07	-0.16*	-0.10	0.05	0.05	0.00	0.16*	0.15*	0.03	-0.01
82	-0.08	-0.02	0.02	-0.00	0.10	0.11	0.07	-0.03	0.11	0.08
83	-0.02	-0.03	-0.02	-0.01	0.15*	0.10	0.05	0.00	0.13	0.03
84	0.03	-0.11	-0.10	-0.04	0.09	0.12	0.08	0.06	0.11	-0.00
85	0.02	0.07	0.11	-0.10	0.01	-0.03	0.16*	0.17*	-0.01	-0.02
86	-0.04	-0.02	-0.09	-0.02	0.15*	0.15*	0.05	0.01	0.16*	0.05
87	-0.21*	0.06	0.06	0.10	-0.07	-0.07	0.07	0.05	-0.07	0.01
88	0.09	-0.03	-0.08	0.02	0.06	-0.01	0.00	-0.04	0.03	0.06
89	0.21*	-0.07	-0.09	-0.09	0.05	0.08	-0.03	-0.05	0.07	0.03
90	0.21*	-0.06	-0.08	-0.10	0.03	0.07	-0.04	-0.06	0.05	0.02
91	0.21*	-0.07	-0.11	-0.09	0.10	0.10	-0.03	-0.05	0.10	0.03
	71	72	73	74	75	76	77	78	79	80
1	-0.10	0.07	0.09	-0.03	0.01	0.00	0.02	0.10	0.01	0.02
2	-0.06	-0.07	-0.02	-0.03	-0.11	-0.09	-0.07	0.02	-0.03	-0.07
3	0.17*	0.00	-0.02	0.07	0.16*	0.05	0.03	0.01	0.03	0.14*
4	-0.04	-0.01	0.06	0.00	0.02	0.03	0.08	0.04	0.03	-0.00
5	0.01	0.10	0.10	-0.05	-0.01	0.01	0.05	-0.05	-0.05	-0.03
6	-0.11	0.01	-0.01	0.10	0.01	-0.07	-0.07	-0.02	0.01	0.09
7	-0.03	0.01	-0.03	-0.00	-0.09	-0.01	0.03	-0.04	0.01	0.07
8	0.07	0.17*	0.15*	0.03	-0.01	0.06	0.03	-0.02	-0.03	-0.07
9	0.11	-0.09	-0.08	0.03	0.15*	-0.11	-0.02	0.04	0.02	-0.06
10	-0.15*	-0.04	-0.03	-0.03	-0.11	-0.01	0.03	0.01	-0.01	0.03
11	0.15*	0.22*	0.18*	0.01	0.10	0.10	0.13	-0.05	-0.06	0.05
12	0.16*	-0.20*	-0.20*	0.21*	0.07	-0.03	-0.04	-0.03	-0.10	0.03
13	-0.01	0.04	0.02	-0.02	0.02	-0.00	-0.04	0.01	-0.10	-0.01
14	0.09	0.11	0.08	0.11	0.08	0.10	0.01	0.04	0.02	0.16*
15	0.07	0.49*	0.48*	0.09	0.19*	0.03	0.11	0.01	-0.10	-0.04

Table A.8-5: Continuation

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	71	72	73	74	75	76	77	78	79	80
16	0.09	0.20*	0.17*	-0.04	-0.02	0.02	0.20*	-0.06	0.00	0.14*
17	-0.01	0.00	0.10	0.03	0.02	-0.01	0.0	0.02	0.03	-0.03
18	0.06	0.01	-0.01	-0.05	0.12	0.05	0.07	0.12	0.03	0.02
19	0.13	0.37*	0.35*	-0.02	-0.03	0.14*	0.15*	-0.04	-0.15*	-0.04
20	0.05	-0.07	-0.01	0.02	0.10	0.08	0.02	-0.08	-0.05	-0.05
21	-0.04	0.07	0.09	-0.12	0.06	0.04	0.10	0.10	0.04	0.0
22	0.03	0.05	0.09	-0.00	0.11	0.07	0.05	0.17*	0.06	0.01
23	-0.04	-0.07	-0.08	0.15*	-0.06	-0.01	-0.05	-0.10	-0.08	0.04
24	-0.02	-0.09	-0.12	0.06	-0.04	0.06	-0.10	-0.13	0.03	-0.04
25	0.01	0.08	0.09	-0.09	0.12	0.03	0.11	0.13	0.01	0.05
26	0.02	0.15*	0.12	-0.03	0.11	0.01	0.03	0.04	-0.07	-0.03
27	-0.06	0.04	0.10	-0.08	0.10	0.05	0.08	0.13	-0.05	-0.01
28	0.02	0.10	0.15*	-0.09	0.10	0.04	0.09	0.08	-0.07	-0.04
29	0.05	0.08	0.08	-0.06	0.07	0.05	0.06	0.02	0.03	-0.04
30	-0.04	0.07	0.11	-0.07	0.11	0.05	-0.02	0.13	0.01	-0.03
31	0.02	0.06	0.12	-0.11	0.07	0.06	0.08	0.13	0.00	-0.02
32	-0.02	-0.10	-0.15*	0.11	-0.13	-0.05	-0.10	-0.15*	-0.00	0.01
33	0.11	0.06	0.06	-0.04	0.11	0.12	0.05	-0.01	-0.00	0.01
34	0.01	-0.05	-0.01	-0.02	-0.03	-0.05	0.02	-0.02	-0.09	-0.05
35	-0.00	0.05	0.08	0.01	-0.05	-0.02	0.04	0.00	0.01	0.06
36	0.09	0.09	0.11	0.02	-0.05	0.00	-0.05	-0.05	-0.13	0.09
37	0.03	0.14*	0.15*	0.02	0.02	0.08	-0.00	-0.02	-0.06	0.12
38	0.06	0.08	0.08	-0.04	0.02	0.07	0.08	0.06	-0.01	-0.01
39	0.04	0.08	0.08	-0.05	-0.01	-0.01	0.09	0.03	0.04	-0.01
40	-0.01	-0.02	-0.08	0.01	0.05	-0.04	0.01	0.03	-0.02	-0.01
41	0.02	-0.03	-0.08	-0.02	-0.01	0.03	0.02	0.01	-0.01	-0.04
42	-0.07	-0.06	-0.06	0.01	-0.04	-0.07	-0.11	-0.05	0.01	-0.04
43	-0.03	-0.07	-0.05	0.04	0.01	0.01	-0.14*	-0.00	-0.04	-0.01
44	0.13	-0.03	-0.05	0.00	-0.08	0.05	0.04	0.05	-0.02	0.03
45	0.09	-0.06	-0.04	0.01	0.09	-0.03	0.03	0.08	0.0	0.06
46	0.09	0.14*	0.20*	0.61*	0.05	-0.04	0.04	-0.03	0.01	0.05
47	-0.13	0.04	0.01	-0.21*	0.01	0.01	0.03	0.04	-0.05	0.07
48	0.02	0.0	-0.03	0.05	-0.09	0.04	0.01	-0.02	0.05	0.05
49	-0.01	-0.07	-0.10	0.06	-0.12	-0.03	-0.02	-0.01	0.06	0.06
50	0.05	0.01	-0.03	0.11	0.04	0.02	-0.07	-0.06	0.04	-0.03
51	-0.09	-0.00	0.02	0.04	0.15*	-0.07	0.00	-0.07	0.0	-0.15*
52	-0.07	-0.10	-0.04	0.04	0.08	-0.04	0.02	0.06	-0.04	-0.05
53	0.16*	-0.05	-0.01	0.00	0.04	-0.02	0.01	-0.04	-0.04	0.11
54	-0.10	0.01	0.02	-0.09	-0.06	-0.04	-0.07	0.18*	0.07	0.00
55	-0.04	-0.01	-0.01	0.06	0.04	-0.02	-0.02	-0.04	-0.10	0.01
56	-0.02	-0.00	-0.02	0.15*	0.02	0.00	-0.09	0.04	-0.04	0.00
57	-0.03	0.04	0.06	0.01	0.02	0.04	-0.04	-0.01	-0.07	-0.01
58	0.03	0.06	0.05	0.07	-0.01	0.01	-0.01	0.01	0.03	0.04
59	-0.02	0.03	0.0	0.06	0.13	-0.01	-0.04	-0.03	-0.05	-0.01
60	-0.04	0.03	0.00	-0.02	-0.06	-0.02	-0.08	-0.03	-0.04	-0.07
61	-0.09	-0.07	-0.04	-0.03	0.02	-0.02	0.16*	-0.00	-0.03	0.05
62	-0.10	-0.05	-0.03	0.02	-0.08	-0.05	-0.09	-0.06	0.03	-0.01
63	-0.09	-0.03	-0.00	0.02	-0.00	0.01	-0.11	-0.04	-0.03	-0.03
64	0.77*	0.09	0.11	0.10	0.04	0.10	-0.01	-0.09	-0.02	0.05
65	0.10	0.95*	0.76*	0.12	0.08	-0.03	0.14*	0.07	-0.02	0.01
66	0.07	0.73*	0.94*	0.16*	0.05	0.03	0.14*	0.08	0.02	0.0
67	0.12	0.13	0.17*	0.95*	0.12	0.02	-0.01	-0.04	0.05	0.09
68	0.01	0.08	0.03	0.14*	0.77*	-0.01	0.05	0.02	-0.01	-0.01
69	0.10	0.90*	0.90*	0.15*	0.07	-0.00	0.15*	0.08	0.0	0.01
70	0.06	0.04	0.08	0.46*	-0.62*	0.0	-0.04	-0.02	0.06	0.12

Table A.8-5: Continuation

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	71	72	73	74	75	76	77	78	79	80
71	1.00	0.11	0.12	0.16*	0.03	0.20*	0.03	-0.06	0.04	0.0
72	0.11	1.00	0.76*	0.13	0.09	-0.04	0.16*	0.06	0.02	0.00
73	0.12	0.76*	1.00	0.17*	0.08	0.03	0.13	0.08	0.04	-0.00
74	0.16*	0.13	0.17*	1.00	0.12	0.03	-0.03	-0.06	0.06	0.09
75	0.03	0.09	0.08	0.12	1.00	0.01	0.05	0.08	0.00	-0.02
76	0.50*	-0.04	0.03	0.03	0.01	1.00	0.02	-0.02	0.01	-0.01
77	0.03	0.16*	0.13	-0.03	0.05	0.02	1.00	0.13	0.12	0.04
78	-0.06	0.06	0.08	-0.06	0.08	-0.02	0.13	1.00	0.10	0.04
79	0.04	0.02	0.04	0.06	0.00	0.01	0.12	0.10	1.00	0.07
80	0.0	0.00	-0.00	0.09	-0.02	-0.01	0.04	0.04	0.07	1.00
81	0.05	0.03	0.01	0.18*	0.16*	0.04	0.03	-0.02	-0.15*	0.05
82	0.02	0.10	0.13	0.07	-0.07	-0.00	-0.01	-0.03	-0.01	-0.06
83	-0.01	0.16*	0.12	0.03	-0.02	-0.07	-0.01	0.16*	0.02	-0.01
84	-0.09	0.09	0.06	0.08	0.02	-0.02	-0.08	-0.02	-0.08	0.09
85	-0.09	0.00	-0.03	0.16*	0.09	-0.02	0.13	0.07	0.02	0.13
86	0.01	0.14	0.11	0.03	-0.03	-0.04	0.10	0.08	0.0	0.01
87	0.11	-0.08	-0.09	0.08	-0.02	0.01	0.0	-0.10	-0.01	-0.01
88	-0.02	0.05	0.03	-0.01	-0.05	0.02	0.03	0.04	-0.03	0.04
89	-0.12	0.06	0.09	-0.04	0.01	-0.02	0.03	0.12	-0.01	0.05
90	-0.13	0.04	0.08	-0.05	0.02	0.00	0.02	0.13	-0.03	0.02
91	-0.10	0.10	0.11	-0.04	0.01	-0.03	0.03	0.12	-0.01	0.05

	81	82	83	84	85	86	87	88	89	90
1	0.02	-0.04	0.02	-0.01	0.02	0.14*	-0.85*	0.36*	0.95*	0.93*
2	-0.12	-0.00	-0.04	0.02	-0.07	-0.04	0.11	0.05	-0.05	-0.05
3	0.11	-0.01	0.01	0.0	0.03	-0.12	0.04	-0.03	-0.03	-0.02
4	0.04	0.01	0.0	-0.04	0.08	0.06	-0.17*	-0.08	0.11	0.09
5	0.09	0.02	0.05	0.04	-0.13	-0.06	-0.17*	0.03	0.18*	0.20*
6	0.01	-0.04	0.01	0.08	0.17*	0.16*	-0.06	-0.11	-0.01	0.00
7	-0.02	0.00	0.06	0.08	-0.07	0.01	0.03	-0.15*	-0.11	-0.11
8	0.06	0.10	0.01	-0.03	-0.06	-0.03	0.14*	0.14*	-0.10	-0.08
9	-0.07	0.01	-0.09	-0.03	-0.06	-0.09	0.03	0.09	0.02	0.02
10	-0.01	-0.04	0.05	-0.05	0.00	0.03	-0.11	-0.06	0.10	0.06
11	0.17*	0.10	0.09	0.07	-0.05	-0.11	-0.01	-0.08	0.01	0.02
12	0.37*	-0.01	-0.02	-0.13	0.04	-0.19*	0.01	-0.05	0.03	0.01
13	0.03	-0.04	0.05	-0.02	-0.03	0.03	-0.24*	0.26*	0.24*	0.34*
14	0.06	0.02	0.15*	0.09	-0.04	-0.09	-0.01	0.04	0.00	0.00
15	0.30*	0.16*	0.09	0.10	0.05	0.15*	-0.02	-0.01	0.04	0.03
16	0.09	0.09	0.04	0.04	0.01	0.05	-0.07	0.05	0.04	0.02
17	-0.04	0.08	0.03	-0.07	0.10	0.01	0.01	0.19*	0.06	0.05
18	0.09	-0.00	0.08	-0.08	0.01	-0.09	-0.13	-0.01	0.08	0.08
19	0.15*	0.20*	0.21*	0.10	-0.09	-0.02	-0.05	0.04	0.02	0.02
20	0.05	0.04	-0.04	0.04	-0.02	-0.16*	0.10	-0.07	-0.10	-0.09
21	0.01	0.08	0.01	-0.02	0.07	-0.05	-0.38*	0.14*	0.44*	0.46*
22	-0.02	0.10	0.08	-0.10	-0.03	-0.05	-0.28*	0.17*	0.33*	0.33*
23	0.01	-0.09	0.07	0.01	0.02	-0.04	0.30*	-0.21*	-0.38*	-0.37*
24	0.02	-0.00	-0.02	0.02	-0.05	-0.06	0.42*	-0.25*	-0.50*	-0.49*
25	0.10	-0.06	0.14*	0.01	-0.00	-0.03	-0.40*	0.22*	0.44*	0.43*
26	0.01	0.03	0.03	0.10	0.0	0.01	-0.28*	0.03	0.28*	0.27*
27	-0.00	0.02	0.01	0.01	-0.01	0.01	-0.51*	0.19*	0.59*	0.59*
28	0.00	0.11	0.01	0.02	-0.08	-0.00	-0.38*	0.15*	0.42*	0.40*
29	0.02	0.05	0.00	0.00	0.03	-0.05	-0.18*	0.20*	0.24*	0.23*
30	-0.03	-0.04	0.05	0.09	-0.03	0.03	-0.21*	0.17*	0.29*	0.29*

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Table A.8-5: Continuation

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	81	82	83	84	85	86	87	88	89	90
31	-0.03	0.01	0.01	0.00	-0.07	-0.05	-0.35*	0.22*	0.43*	0.42*
32	0.01	-0.06	-0.03	-0.01	0.02	0.02	0.50*	-0.26*	-0.58*	-0.57*
33	0.09	-0.00	0.02	-0.03	-0.12	-0.12	-0.13	0.10	0.20*	0.19*
34	0.04	0.10	-0.00	-0.08	-0.03	-0.03	0.07	-0.00	-0.08	-0.07
35	0.04	0.15*	0.03	0.02	0.07	0.0	-0.02	-0.04	-0.05	-0.05
36	-0.01	0.11	-0.02	0.08	-0.01	-0.02	-0.05	-0.02	0.05	0.06
37	0.02	0.10	0.02	0.06	0.02	-0.00	-0.05	0.01	0.05	0.06
38	0.10	0.02	0.01	0.13	-0.05	0.08	-0.06	0.02	0.04	0.04
39	0.09	-0.01	0.02	0.06	-0.07	0.07	-0.01	0.02	0.02	0.01
40	0.08	-0.03	0.03	0.10	-0.02	0.05	-0.04	0.02	0.06	0.05
41	0.05	-0.01	-0.01	0.12	-0.10	0.01	-0.03	0.04	0.05	0.04
42	-0.13	-0.01	0.00	-0.09	0.06	-0.05	0.04	-0.03	-0.03	-0.03
43	-0.09	-0.00	0.01	-0.03	0.09	-0.04	0.08	-0.05	-0.09	-0.08
44	0.14*	-0.01	0.06	0.06	-0.10	-0.06	0.01	0.05	0.04	0.05
45	0.16*	-0.01	0.03	0.04	-0.09	-0.02	0.01	0.14*	0.08	0.08
46	0.13	0.08	0.04	0.04	0.15*	0.07	0.06	-0.03	-0.05	-0.07
47	0.01	-0.07	0.03	-0.01	-0.15*	-0.02	-0.14*	0.03	0.17*	0.18*
48	-0.01	-0.03	-0.05	-0.04	-0.11	-0.08	0.02	0.01	-0.05	-0.06
49	-0.15*	-0.05	-0.01	-0.03	0.04	0.13	-0.10	0.00	0.07	0.06
50	0.14*	0.11	-0.03	0.00	0.05	0.02	0.05	-0.02	-0.06	-0.06
51	-0.03	-0.02	0.07	0.04	0.02	0.07	0.03	-0.01	-0.04	-0.02
52	0.00	0.01	0.03	0.03	0.07	-0.10	0.06	-0.01	-0.08	-0.09
53	-0.03	0.03	-0.06	-0.02	-0.03	-0.03	-0.05	-0.06	0.03	0.03
54	-0.02	-0.04	0.04	0.01	-0.02	0.03	-0.03	0.07	0.07	0.08
55	-0.08	-0.00	-0.06	-0.00	0.08	-0.06	-0.07	0.05	0.07	0.06
56	-0.01	0.07	0.02	-0.02	-0.03	-0.02	0.06	-0.05	-0.07	-0.07
57	0.03	-0.01	0.03	-0.02	-0.05	-0.09	-0.00	-0.01	0.02	0.02
58	-0.07	0.06	0.13	-0.03	-0.03	0.04	0.14*	0.01	-0.10	-0.11
59	-0.05	0.04	0.04	0.07	-0.06	-0.10	-0.0*	0.05	0.03	0.03
60	-0.05	-0.07	0.01	-0.00	0.02	0.05	-0.16*	0.08	0.14*	0.14
61	-0.07	-0.08	-0.02	0.03	0.02	-0.04	-0.21*	0.09	0.21*	0.21*
62	-0.16*	-0.02	-0.03	-0.11	0.07	-0.02	0.06	-0.03	-0.07	-0.06
63	-0.10	0.02	-0.02	-0.10	0.11	-0.09	0.06	-0.08	-0.09	-0.08
64	0.05	-0.00	-0.01	-0.04	-0.10	-0.02	0.10	0.02	-0.09	-0.10
65	0.05	0.10	0.15*	0.09	0.01	0.15*	-0.07	0.06	0.05	0.03
66	0.00	0.11	0.10	0.12	-0.03	0.15*	-0.07	-0.01	0.08	0.07
67	0.16*	0.07	0.05	0.08	0.16*	0.05	0.07	0.00	-0.03	-0.04
68	0.15*	-0.03	0.00	0.06	0.17*	0.01	0.05	-0.04	-0.05	-0.06
69	0.03	0.11	0.13	0.11	-0.01	0.16*	-0.07	0.03	0.07	0.05
70	-0.01	0.08	0.03	-0.00	-0.02	0.05	0.01	0.06	0.03	0.02
1	0.05	0.02	-0.01	-0.09	-0.09	0.01	0.11	-0.02	-0.12	-0.13
2	0.03	0.10	0.16*	0.09	0.00	0.14	-0.08	0.05	0.06	0.04
3	0.01	0.13	0.12	0.06	-0.03	0.11	-0.09	0.03	0.09	0.08
4	0.18*	0.07	0.03	0.08	0.16*	0.03	0.08	-0.01	-0.04	-0.05
5	0.16*	-0.07	-0.02	0.02	0.09	-0.03	-0.02	-0.05	0.01	0.02
6	0.04	-0.00	-0.07	-0.02	-0.02	-0.04	0.01	0.02	-0.02	0.00
7	0.03	-0.01	-0.01	-0.08	0.13	0.10	0.0	0.03	0.03	0.02
8	-0.02	-0.03	0.16*	-0.02	0.07	0.08	-0.10	0.04	0.12	0.13
9	-0.15*	-0.01	0.02	-0.08	0.02	0.0	-0.01	-0.03	-0.01	-0.03
0	0.05	-0.06	-0.01	0.09	0.13	0.01	-0.01	0.04	0.05	0.02
1	1.00	0.14*	0.03	-0.01	0.17*	-0.01	-0.04	0.05	0.04	0.05
2	0.14*	1.00	0.04	-0.01	0.06	0.06	-0.04	-0.05	-0.01	-0.03
3	0.03	0.04	1.00	0.03	-0.07	-0.03	-0.05	0.02	0.04	0.03
4	-0.01	-0.01	0.03	1.00	-0.00	0.12	-0.02	-0.08	-0.02	-0.03
5	0.17*	0.06	-0.07	-0.00	1.00	0.06	-0.02	0.05	0.02	0.01
6	-0.01	0.06	-0.03	0.12	0.06	1.00	-0.12	0.07	0.12	0.11

Table A.8-5: Continuation

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	81	82	83	84	85	86	87	88	89	90
87	-0.04	-0.04	-0.05	-0.02	-0.02	-0.12	1.00	-0.09	-0.85*	-0.81*
88	0.05	-0.05	0.02	-0.08	0.05	0.07	-0.09	1.00	0.43*	0.42*
89	0.04	-0.01	0.04	-0.02	0.02	0.12	-0.85*	0.43*	1.00	0.98*
90	0.05	-0.03	0.03	-0.03	0.01	0.11	-0.81*	0.42*	0.98*	1.00
91	0.04	-0.02	0.04	-0.01	0.03	0.13	-0.86*	0.44*	0.96*	0.92*
	91					91				91
1	0.93*				31	0.41*			61	0.21*
2	-0.07				32	-0.55*			62	-0.07
3	-0.03				33	0.17*			63	-0.11
4	0.07				34	-0.06			64	-0.09
5	0.15*				35	-0.01			65	0.10
6	0.01				36	0.04			66	0.10
7	-0.08				37	0.05			67	-0.03
8	-0.08				38	0.05			68	-0.05
9	0.03				39	0.03			69	0.10
10	0.05				40	0.07			70	0.03
11	-0.01				41	0.06			71	-0.10
12	0.02				42	-0.02			72	0.10
13	0.36*				43	-0.09			73	0.11
14	0.04				44	0.04			74	-0.04
15	0.04				45	0.07			75	0.01
16	0.06				46	-0.06			76	-0.03
17	-0.01				47	0.16*			77	0.03
18	0.09				48	-0.04			78	0.12
19	0.03				49	0.06			79	-0.01
20	-0.12				50	-0.04			80	0.05
21	0.40*				51	-0.05			81	0.04
22	0.30*				52	-0.07			82	-0.02
23	-0.37*				53	0.02			83	0.04
24	-0.50*				54	0.04			84	-0.01
25	0.44*				55	0.07			85	0.03
26	0.28*				56	-0.08			86	0.13
27	0.53*				57	0.02			87	-0.86*
28	0.39*				58	-0.09			88	0.44*
29	0.24*				59	0.05			89	0.96*
30	0.29*				60	0.14			90	0.92*
									91	1.00

Significant correlations (where alpha = 1%) = \*

Table A.8-6: Factor Analysis of the Data Set D91, Loading According to the Varimax Rotation

Variable Nr.	b Ladungen auf Faktor Nr.													
	1	2	3	4	5	6	7	8	9	10	11	12	13	14
2	06	-01	-15	-42	-00	-10	-13	-15	04	30	04	04	-06	27
3	18	-09	05	18	08	07	-31	11	-14	-23	-11	01	08	-11
4	30	04	-08	03	02	-07	-16	-10	12	-18	-08	05	36	-13
5	20	12	10	15	-09	-09	07	-02	03	-03	-00	09	-38	-21
6	-40	03	01	-03	10	09	51	-05	11	-05	-13	02	05	02
7	-04	-03	10	15	03	-10	-15	-04	09	-10	-13	01	-02	07
8	03	16	09	-03	05	03	-10	-03	-05	21	09	01	-45	02
9	18	-13	-17	-10	03	09	-22	13	-18	-02	10	-11	-01	10
10	-12	-02	-11	12	-03	-07	21	-11	19	-14	-03	11	-00	-08
11	12	17	12	53	-03	06	-22	09	-03	-13	06	10	-19	-31
12	-03	-25	-00	07	16	03	-09	28	-15	-06	12	08	-02	-56
13	32	-03	-01	09	02	01	23	02	-03	-01	-07	01	-27	03
14	-02	06	21	14	07	02	-08	09	-00	-01	-02	08	-07	-00
15	04	54	06	22	05	15	03	07	00	04	-05	-05	-09	-30
16	05	18	19	37	-05	-01	05	04	-04	-06	-05	04	-04	-05
17	03	06	-03	02	05	00	-02	-02	03	15	04	06	52	02
18	06	02	05	-00	-09	09	06	13	-03	-12	-14	-09	02	-33
19	12	38	26	50	-08	-09	-17	-03	01	15	05	12	-21	-20
20	07	-10	00	20	03	04	-28	04	-06	-07	-09	01	11	-01
21	59	05	03	00	-08	-03	-07	-16	07	-02	06	07	-02	-06
22	38	04	06	-11	01	03	08	-08	-03	04	03	08	-05	-04
23	-65	-01	-11	-05	11	02	07	-02	08	-09	02	16	06	-04
24	-65	-07	-01	-00	03	01	-07	-12	04	-07	-06	-02	-27	00
25	64	04	08	05	-02	05	11	-04	-03	-23	-06	-02	-08	-02
26	58	10	-06	13	-01	04	-13	14	02	-14	-14	05	01	01
27	70	01	03	-00	-00	02	15	-02	02	-13	06	10	05	02
28	82	09	05	02	-05	-02	-21	01	-02	-06	01	08	03	-01
29	46	06	07	03	-03	02	-07	07	-05	10	00	-15	-04	-03
30	53	08	01	-07	-06	07	-05	05	02	12	-07	-16	-18	07
31	82	03	11	-03	-06	-01	-20	-02	-07	03	08	-05	-07	07
33	39	01	12	18	-05	01	-21	08	-09	-20	12	-09	-21	-22
34	-02	-02	-12	-10	-00	-02	-07	-15	-02	58	-10	-02	01	-01
35	-07	06	-01	12	02	-02	06	-10	03	48	-12	01	05	-00
36	01	07	-27	56	01	01	01	-14	-06	15	-03	05	02	05
37	-01	11	-15	61	-00	05	01	-11	-05	07	02	-11	05	06
38	10	06	88	00	-01	-01	-05	15	-01	-01	09	02	-03	-00
39	01	07	82	-05	-05	-03	04	14	-03	-09	-06	-00	-07	-02
40	04	-03	28	-21	02	02	10	68	06	-12	-13	07	-09	05
41	03	-04	26	-21	-02	-04	07	69	03	-10	-13	12	-13	07
42	-09	-02	-87	-04	-01	00	06	-13	03	01	-11	05	-01	03
43	-07	-03	-82	-02	04	04	-06	-09	05	11	02	03	08	06
44	-01	-03	07	08	-08	03	-08	76	-04	-09	04	06	05	-23
45	07	-04	09	07	-06	02	-10	77	-04	-04	07	-02	03	-20
46	-12	15	-03	03	65	04	05	-18	-03	07	-06	13	07	01
47	07	05	08	06	-26	00	12	11	24	-05	-06	21	-12	-09
48	-11	-01	-01	-06	02	-11	-08	01	-03	-03	45	-04	-05	-02
49	02	-11	-00	01	11	-07	03	-12	-08	-10	47	-04	06	23
50	-10	-01	00	-04	12	01	01	17	-09	-02	-10	-18	10	-16
51	-06	00	-02	03	11	22	08	-07	08	02	-16	06	-02	14
52	-02	-04	-02	-13	02	07	-09	00	12	10	03	04	02	-08
53	01	-05	02	-01	-02	-01	02	08	-13	01	06	62	06	-01
54	08	04	00	-02	-13	-06	-01	-03	12	01	04	-58	-01	-04
55	00	-02	-03	-07	05	06	09	-04	07	18	13	09	-05	06

Key:

a. variable number

b. loading on factor number

Table A. 8-6: Continuation

Variable Nr.	b Ladungen auf Faktor Nr.													
	1	2	3	4	5	6	7	8	9	10	11	12	13	14
56	-04	00	-12	-04	11	-03	-10	10	16	04	-05	18	-10	-06
57	07	05	-12	08	02	-07	-08	-01	09	-08	-01	02	-16	-04
58	-10	04	-05	08	09	-02	02	07	-08	03	-41	-08	03	22
59	09	-05	17	21	08	14	-07	16	01	08	21	-01	02	17
60	10	02	-03	03	-02	-03	05	05	03	-14	42	-08	-01	04
61	14	-08	14	12	-00	05	11	-01	10	10	47	13	02	05
64	-01	07	01	04	05	02	-03	04	-79	01	-01	15	-03	-03
65	00	93	02	06	04	04	07	00	-01	01	-01	-05	-05	04
66	09	91	02	06	03	-03	-01	-06	-00	02	-02	-00	-01	05
67	-09	11	00	-01	95	-00	-01	03	-02	01	03	02	02	-03
68	01	05	01	02	12	92	-03	04	-00	01	-05	-02	04	-07
69	04	98	02	06	07	01	04	-02	-03	02	-02	-03	-03	04
70	-10	05	-01	-01	48	-81	05	01	-01	05	07	-03	-01	02
71	-02	09	02	05	07	-03	-10	05	-81	-01	-04	13	-02	-10
72	05	90	02	10	05	04	03	02	-06	-04	01	-04	-06	05
73	11	90	02	06	09	-02	-02	-04	-06	03	-01	03	04	03
74	-08	10	-03	-01	94	00	-04	05	-06	-01	03	01	-02	-08
75	12	06	00	-04	11	82	-08	05	-01	-05	-05	03	01	-11
76	03	-01	05	09	-00	-03	-06	-05	-15	-04	-02	01	-07	-08
77	07	17	16	02	-04	05	-02	-05	-00	00	01	05	14	-10
78	14	10	02	-14	-05	03	04	03	09	00	-05	-14	11	-03
79	-02	02	04	-14	03	-03	-01	-06	-06	-14	-03	-16	12	06
80	-04	-03	02	17	09	-04	07	02	-02	-03	-02	01	10	03
81	02	03	11	09	20	09	03	09	-01	09	-08	-03	-04	-51
82	05	12	03	12	08	-09	-08	-01	02	23	-10	05	06	-12
83	02	15	01	08	03	-02	02	04	09	-00	-10	-03	-07	-01
84	-00	09	09	16	10	05	-01	13	14	-04	-04	02	-05	21
85	-01	-02	-02	-01	20	15	11	-10	09	04	-02	-08	25	-14
86	-01	17	09	-01	05	-03	27	00	-01	-05	-05	-08	15	14
87	-58	-03	-00	-10	02	05	-58	02	-12	10	-14	-10	-10	09
88	30	-01	-02	-01	02	-02	27	16	-13	29	13	-23	-06	07
90	67	-00	-04	07	00	-05	61	07	07	02	14	-01	02	-07
91	65	04	-03	08	02	-05	65	10	04	03	14	-03	02	-04
c Var.- Ant.	% 7.7	6.1	4.2	2.6	3.4	2.9	2.8	3.2	2.1	1.7	1.7	1.5	1.6	1.9

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Communality estimation by means of multiple correlation. The 14 factors have inherent values greater than 1. Variable names, average values and scattering are found in the main report, Table 8-6. An analysis with communalities = 1 results in a similar structure in the first 14 factors, but the variables 6, 3, 9, 33 and 20 define a separate (fourth greatest) factor.

Key:

a. variable number

b. loads on factor no.

c. variable portion in %

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Table A.8-7: Discrimination Analysis for 2 Groups according to the "Global Reaction S"

a Gruppe RIU- = negative Gruppe RIU+ = neutrale		d Reaktion auf Fluglärm (RIU)	(N = 165) (N = 192)
e Moderator-Variablen	f Ladungen	t-Test (Alpha)	
2 Status, CS	00		
3 Labilität ,P+S', CS	18	02	
4 Autolärmärger, CS	29	00	
5 Wohndauer, CS	24	00	
6 Robusth. g. Lärm, CS	-52	00	
7 Labilität ,M', CS	-09		
8 Bind. an Haus, CS	11		
9 Unangen. Rausch. CS	15		
10 Zufr. Verkehr, CS	-17	03	
11 Abneig. Modern., CS	18	02	
12 Geschlecht	-08		
14 Schl. Zustand	00		
15 Übergewicht	07		
16 Stroop-Score	12		
19 Alter	16	04	
20 Kritikbereitsch.	09		
35 Wörter falsch	-03		
36 Falsche R., Di. oA	21	00	
40 Reakt. Z., Distr. oA	07		
42 Treffer, Distr. oA	-20	01	
46 Ruhe-Pulsfrequenz	22	01	
51 Finger Ampl. Ruhe	-15		
55 Kopf Amplit. Ruhe	01		
64 EMI Ruhe, CS	-01		
65 RRS Ruhe, CS	04		
66 RRD Ruhe, CS	17		
68 AF Ruhe, CS	02		
83 Blutzucker	05		
g Stimulus-Variable	.		
h 89 Fluglärmmaß FB1	73	00	

The discrimination function is significant (alpha less than 1<sup>0</sup>/oo). Loading without decimal point and leading zero. Compare Table 8-9 (main report).

## Key:

- a. group
- b. negative
- c. neutral
- d. reaction to aircraft noise
- e. moderator variables
  - 2 status
  - 3 instability
  - 4 annoyance due to automobile noise
  - 5 length of residence

(Key continued on following page)



- 6 physical tolerability to noise
- 7 instability
- 8 attachment to the dwelling
- 9 unpleasant sounds
- 10 satisfaction with means of transportation
- 11 dislike of modern times
- 12 sex
- 14 poor condition
- 15 overweight
- 16 stroop score
- 19 age
- 20 readiness to criticize
- 35 word errors
- 36 false r.di. or something similar
- 40 reaction
- 42 hit
- 46 pulse rate at rest
- 51 finger amplitude at rest
- 55 head amplitude at rest
- 64 EMI at rest
- 65 RRS at rest
- 66 RRD at rest
- 68 AF at rest
- 83 blood sugar
- f. loads
- g. stimulus variable
- h. 89 measure of aircraft noise

#### A.8.5.5.2

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Table A.8-8: Regression Model for Determination of Path Coefficients

The path coefficients entered in Figure 8-6 are standardized beta weights from the following regression analyses (with SPSS program):

Path coefficient		Predictors in Model of Regression	Residual Coefficient
FB1 -- DEF	(21)	FB1	} DEF: 98
ROB -- RIU	(38)	ROB FB1	} RIU: 71
FB1 -- RIU	(-57)	FB1 ROB	
AGE -- FAF	(-11)	AGE ROB RIU SEX FB1	} FAF: 89
ROB -- FAF	(-19)	ROB AGE RIU SEX FB1	
RIU -- FAF	(-33)	RIU AGE ROB SEX FB1	
SEX -- FAF	(20)	SEX AGE ROB RIU FB1	} RRD: 97
AGE -- RRD	(35)	AGE RIU SEX ROB FB1	
RIU -- RRD	(-10)	RIU AGE SEX ROB FB1	
SEX -- RRD	(-19)	SEX AGE RIU ROB FB1	} AUF: 97
AGE -- AUF	(-12)	AGE FAF RIU SEX ROB FB1	
FAF -- AUF	(-14)	FAF AGE RIU SEX ROB FB1	
RIU -- AUF	(14)	RIU AGE FAF SEX ROB FB1	
SEX -- AUF	(-17)	SEX AGE FAF RIU ROB FB1	

Compare the text in 8.5.5.2 to Figure 8-6 on the variables; see also below.

# Remarks on the Residual Coefficients in Figure A.8-1 and Table A.8-8

The residues mentioned in Table A.8-8 have been included in Figure A.8-1 in the "model of the effects of aircraft noise III" from Figure 8-6.

The residual coefficient of a multiple regression analysis is analogous to the alienation coefficient of a simple correlation: it is defined by the square root of the compliment of the multiple correlation coefficient to one.

"The squared values of the residual variables are a measure for the portion of variance, which cannot be explained by the variables, assumed to have a determining effect in the given model. They are therefore a comprehensive measurement for the degree of description of a model and the relations of cause and effect postulated therein" (Müller, 1972, p. 70).

Figure A.8-1: Model of the Effects of Aircraft Noise III

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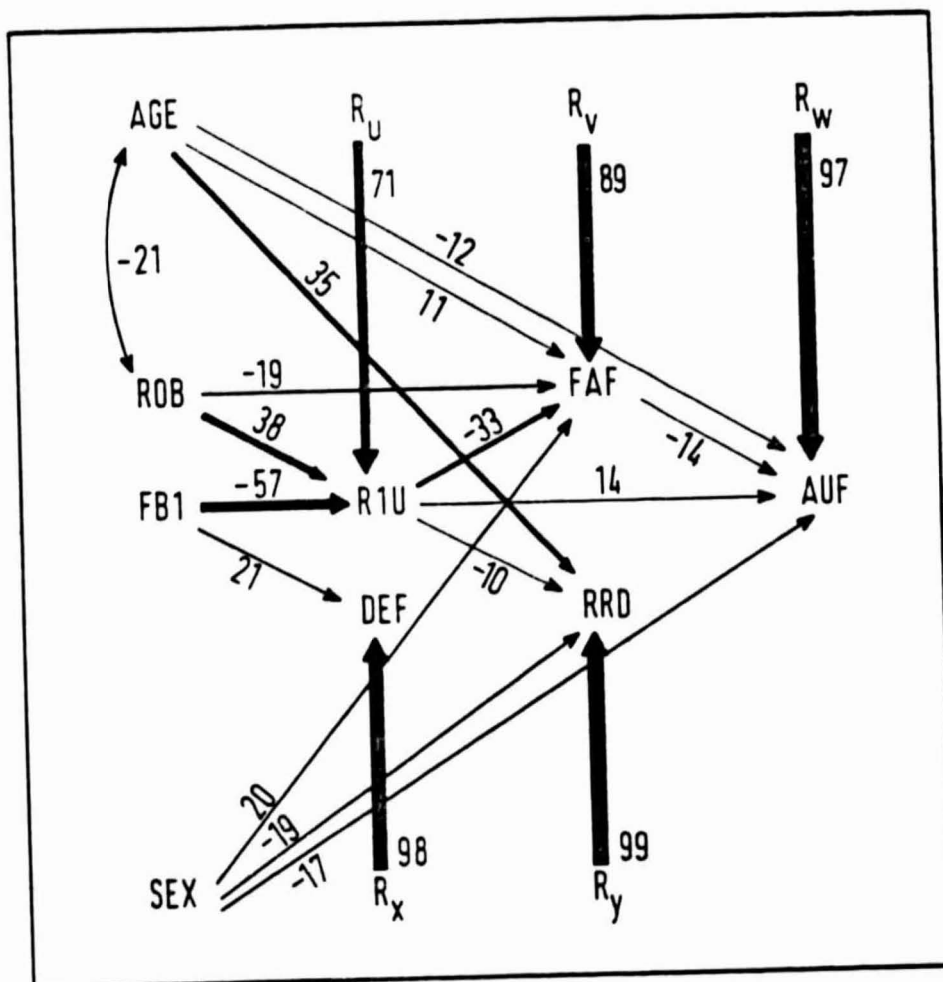


Table A.8-9: Average Population Density per Cluster Strip

When the values for population density points given in Table 2-2 (main report, 2.3.4) are replaced by sliding average values of three clusters each, the results per cluster strip are:

Set D		Set C		Set B		Set A	
01	1.5	05	2.7	19	21.3	09	3.7
02	1.0	11	5.3	20	31.7	12	6.7
03	0.7	13	7.3	21	39.7	18	18.7
04	1.7	14	11.0	22	52.3	23	56.7
06	3.3	15	12.0	24	58.7	25	58.7
07	3.7	16	14.7	26	66.0	30	86.0
08	4.0	17	14.0	27	81.0	31	103.3
10	4.7	28	81.7	29	88.0	32	105.0